SHARP

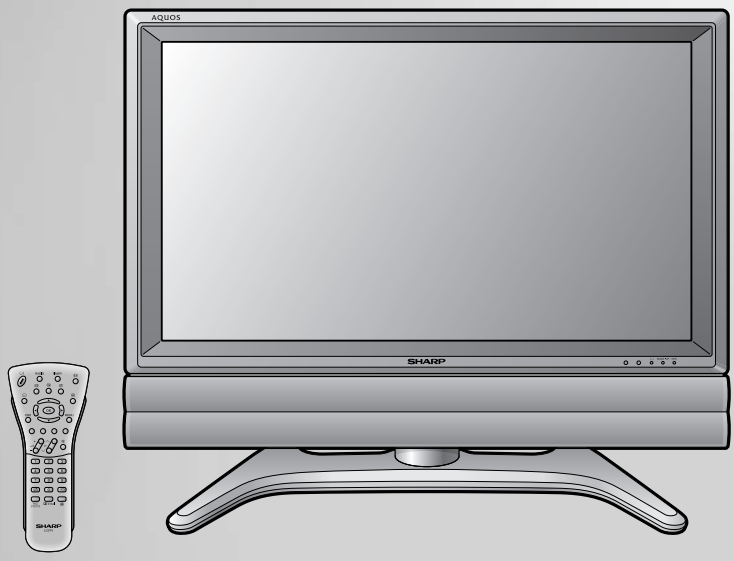
LC-26GA5E
LC-32GA5E
LC-37GA5E

LCD COLOUR TELEVISION
LCD-FARBFERNSEHGERÄT
TÉLÉVISION COULEUR À ÉCRAN
À CRISTAUX LIQUIDES (LCD)
LCD-KLEURENTELEVISIE
TELEVISORE A COLORI LCD

OPERATION MANUAL
BEDIENUNGSANLEITUNG
MODE D'EMPLOI
MANUALE DI ISTRUZIONI
GEBRUIKSAANWIJZING
MANUAL DE MANEJO

ENGLISH
DEUTSCH
FRANÇAIS
ITALIANO
NEDERLANDS
ESPAÑOL

AQUOS



VIRTUAL DOLBY SURROUND

This apparatus complies with the requirements of Council Directives 89/336/EEC and 73/23/EEC as amended by Council Directive 93/68/EEC.

Dieses Gerät entspricht den Anforderungen der EG-Richtlinien 89/336/EWG und 73/23/EWG mit Änderung 93/68/EWG.

Ce matériel répond aux exigences contenues dans les directives 89/336/CEE et 73/23/CEE modifiées par la directive 93/68/CEE.

Dit apparaat voldoet aan de eisen van de richtlijnen 89/336/EEG en 73/23/EEG, gewijzigd door 93/68/EEG.

Dette udstyr overholder kravene i direktiv nr. 89/336/EEC og 73/23/EEC med tillæg nr. 93/68/EEC.

Quest' apparecchio è conforme ai requisiti delle direttive 89/336/EEC e 73/23/EEC, come emendata dalla direttiva 93/68/EEC.

Αυτή η συσκευή συμμορφώνεται με τις απαιτήσεις των οδηγιών του Συμβουλίου 89/336/ΕΟΚ και 73/23/ΕΟΚ όπως τροποποιήθηκαν από την οδηγία του Συμβουλίου 93/68/ΕΟΚ.

Este equipamento obedece às exigências das directivas 89/336/CEE e 73/23/CEE, na sua versão corrigida pela directiva 93/68/CEE.

Este aparato satisface las exigencias de las Directivas 89/336/CEE y 73/23/CEE, modificadas por medio de la 93/68/CEE.

Denna utrustning uppfyller kraven enligt riktlinjerna 89/336/EEC och 73/23/EEC så som kompletteras av 93/68/EEC.

Dette produktet oppfyller betingelsene i direktivene 89/336/EEC og 73/23/EEC i endringen 93/68/EEC.

Tämä laite täyttää direktiivien 89/336/EEC ja 73/23/EEC vaatimukset, joita on muutettu direktiivillä 93/68/EEC.

Bu cihaz Konsey Direktifi 93/68/EEC tarafindan düzeltilen 89/336/EEC ve 73/23/EEC Konsey Direktiflerinin gerekliliklerine uygundur.

Tento přístroj je v souladu s požadavky směrnic rady 89/336/EEC a 73/23/EEC, tak jak byly upraveny směrnicí rady 93/68/EEC.

See seade on vastavuses Nõukogu Direktiivis nr 89/336/EEC ja 73/23/EEC esitatud nõuetega, vastavalt Nõukogu Direktiivis nr 93/68/EEC esitatud parandustele

Ez a készülék megfelel a Tanács által kiadott, 89/336/EGK és 73/23/EGK Irányelveknek és az utóbbit módosító 93/68/EGK Irányelvnek

Ši ierice atbilst tehniskam prasibam pec 89/336/EEC un 73/23/EEC direktivam papildinats ar direktivu 93/68/EEC.

Šis prietaisas atitinka ES Tarybos direktyvu 89/336/EEC ir 73/23/EEC patikslintos direktyvos 93/68/EEC reikalavimus.

To urządzenie spełnia wymagania dyrektyw 89/336/EEC i 73/23/EEC wraz z poprawkami dyrektywy 93/68/EEC.

Tento prístroj je v súlade s požiadavkami smerníc rady 89/336/EEC a 73/23/EEC tak ako boli upravené smernicou rady 93/68/EEC.

Ta aparat je v skladu z zahtevami Direktiv Sveta 89/336/EEC in 73/23/EEC kot je navedeno v dopolnilu k Direktivi Sveta 93/68/EEC.

SPECIAL NOTE FOR USERS IN THE U.K.

The mains lead of this product is fitted with a non-rewireable (moulded) plug incorporating a 13A fuse. Should the fuse need to be replaced, a BSI or ASTA approved BS 1362 fuse marked ♡ or ASTA and of the same rating as above, which is also indicated on the pin face of the plug, must be used.
Always refit the fuse cover after replacing the fuse. Never use the plug without the fuse cover fitted.
In the unlikely event of the socket outlet in your home not being compatible with the plug supplied, cut off the mains plug and fit an appropriate type.

DANGER:
The fuse from the cut-off plug should be removed and the cut-off plug destroyed immediately and disposed of in a safe manner.
Under no circumstances should the cut-off plug be inserted elsewhere into a 13A socket outlet, as a serious electric shock may occur.
To fit an appropriate plug to the mains lead, follow the instructions below:

IMPORTANT:
The wires in the mains lead are coloured in accordance with the following code:

Blue: Neutral
Brown: Live

As the colours of the wires in the mains lead of this product may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
- The wire which is coloured blue must be connected to the plug terminal which is marked N or coloured black.
- The wire which is coloured brown must be connected to the plug terminal which is marked L or coloured red.

Ensure that neither the brown nor the blue wire is connected to the earth terminal in your three-pin plug.
Before replacing the plug cover make sure that:
- If the new fitted plug contains a fuse, its value is the same as that removed from the cut-off plug.
- The cord grip is clamped over the sheath of the mains lead, and not simply over the lead wires.

IF YOU HAVE ANY DOUBT, CONSULT A QUALIFIED ELECTRICIAN.

OPERATION MANUAL ENGLISH

- The illustrations and on-screen displays in this operation manual are for explanation purposes and may vary slightly from the actual operations.
- The examples used throughout this manual are based on the LC-32GA5E model.

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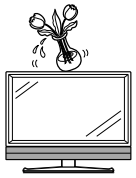
Dear SHARP customer

Thank you for your purchase of the SHARP LCD colour TV product. To ensure safety and many years of trouble-free operation of your product, please read the Important Safety Precautions carefully before using this product.

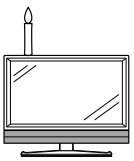
Important Safety Precautions

- Cleaning—Unplug the AC cord from the AC outlet before cleaning the product. Use a damp cloth to clean the product. Do not use liquid cleaners or aerosol cleaners.
- Water and moisture—Do not use the product near water, such as bathtub, washbasin, kitchen sink, laundry tub, swimming pool and in a wet basement.
- Do not place vases or any other water-filled containers on this product.
  The water may spill onto the product causing fire or electric shock.



- Stand—Do not place the product on an unstable cart, stand, tripod or table. Doing so can cause the product to fall, resulting in serious personal injuries as well as damage to the product. Use only a cart, stand, tripod, bracket or table recommended by the manufacturer or sold with the product. When mounting the product on a wall, be sure to follow the manufacturer's instructions. Use only the mounting hardware recommended by the manufacturer.

- When relocating the product placed on a cart, it must be moved with utmost care. Sudden stops, excessive force and uneven floor surface can cause the product to fall from the cart.
- Ventilation—The vents and other openings in the cabinet are designed for ventilation. Do not cover or block these vents and openings since insufficient ventilation can cause overheating and/or shorten the life of the product. Do not place the product on a bed, sofa, rug or other similar surface, since they can block ventilation openings. This product is not designed for built-in installation; do not place the product in an enclosed place such as a bookcase or rack, unless proper ventilation is provided or the manufacturer's instructions are followed.
- The LCD panel used in this product is made of glass. Therefore, it can break when the product is dropped or impact applied. If the LCD panel is broken, be careful not to be injured by broken glass.
- Heat sources—Keep the product away from heat sources such as radiators, heaters, stoves and other heat-generating products (including amplifiers).



- To prevent fire, never place any type of candle or naked flames on the top or near the TV set.
- To prevent fire or shock hazard, do not place the AC power cord under the TV set or other heavy items.
- Do not display a still picture for a long time, as this could cause an afterimage to remain.
- There is power consumption always if main plug is connected.

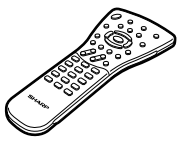
The LCD panel is a very high technology product, giving you fine picture details.
Due to the very large number of pixels, occasionally a few non-active pixels may appear on the screen as a fixed point of blue, green or red.
This is within product specifications and does not constitute a fault.

Precautions when transporting the TV

When transporting the TV, never carry it by holding onto the speaker. Be sure to always carry the TV by two people holding it with two hands—one hand on each side of the display.

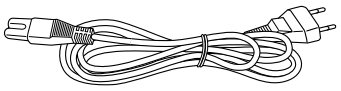
Supplied accessories

Remote control unit (×1)



Page 4 and 5

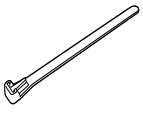
AC cord (×1)



Product shape varies in some countries.

Page 3

Cable tie (×1)



Page 3

Cable clamp (×1)

Page 3

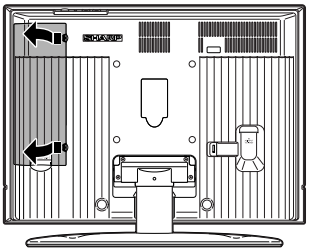
- "AAA" size battery (×2) ..... Page 4
- Operation manual

Preparation

Setting the TV

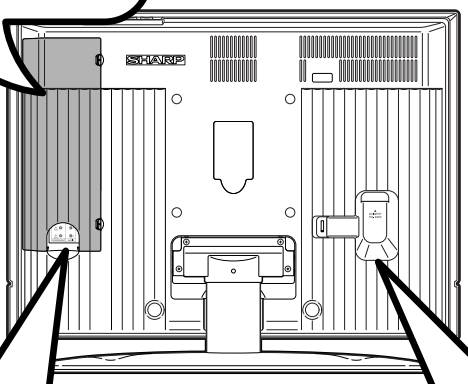
NOTE
- The illustration shows the LC-32GA5E.

Removing the terminal cover



Press the two hooks and slide the cover toward the left of TV to remove.

TV (rear view)

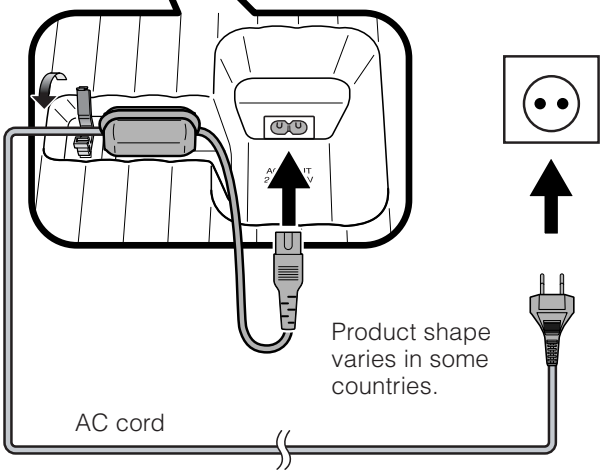


Standard DIN45325 plug (IEC 169-2) 75-ohm coaxial cable

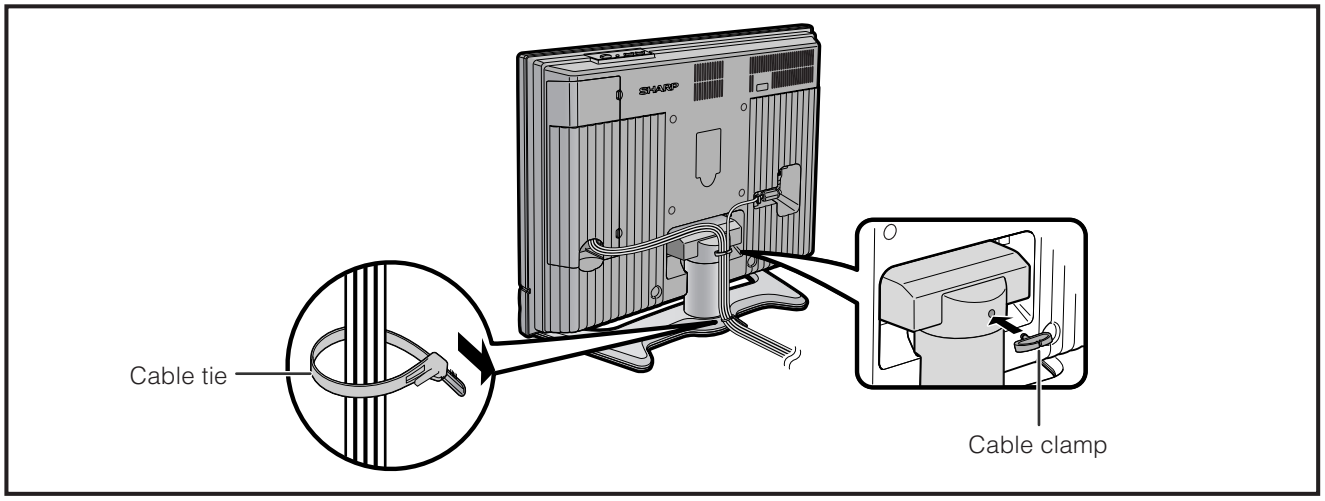
To TV antenna terminals

FM antenna cable

To FM antenna terminals



Bundling the cables



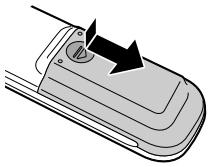
Inserting the batteries

Before using the TV for the first time, insert two “AAA” size batteries (supplied). When the batteries become depleted and the remote control fails to operate, replace the batteries with new “AAA” size batteries.

1 Press and slide the battery cover to open it.

2 Insert two supplied “AAA” size batteries.

- Place batteries with their terminals corresponding to the (+) and (−) indications in the battery compartment.



3 Close the battery cover.

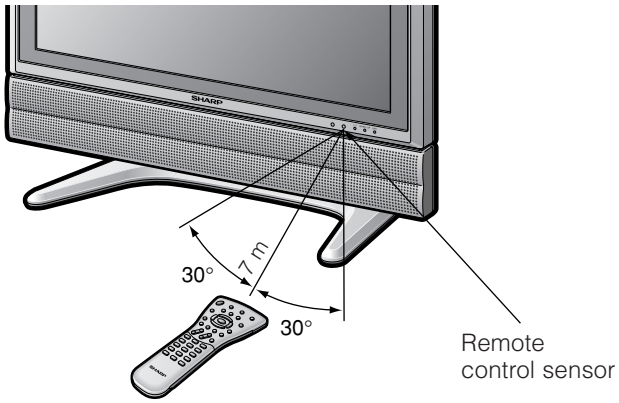
CAUTION

Improper use of batteries can result in chemical leakage or explosion. Be sure to follow the instructions below.

- Do not mix batteries of different types. Different types of batteries have different characteristics.
- Do not mix old and new batteries. Mixing old and new batteries can shorten the life of new batteries or cause chemical leakage in old batteries.
- Remove batteries as soon as they have worn out. Chemicals that leak from batteries can cause a rash. If you find any chemical leakage, wipe thoroughly with a cloth.
- The batteries supplied with this product may have a shorter life expectancy due to storage conditions.
- If you will not be using the remote control unit for an extended period of time, remove the batteries from it.

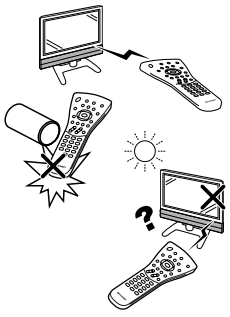
Using the remote control unit

Use the remote control unit by pointing it towards the remote control sensor. Objects between the remote control unit and sensor may prevent proper operation.



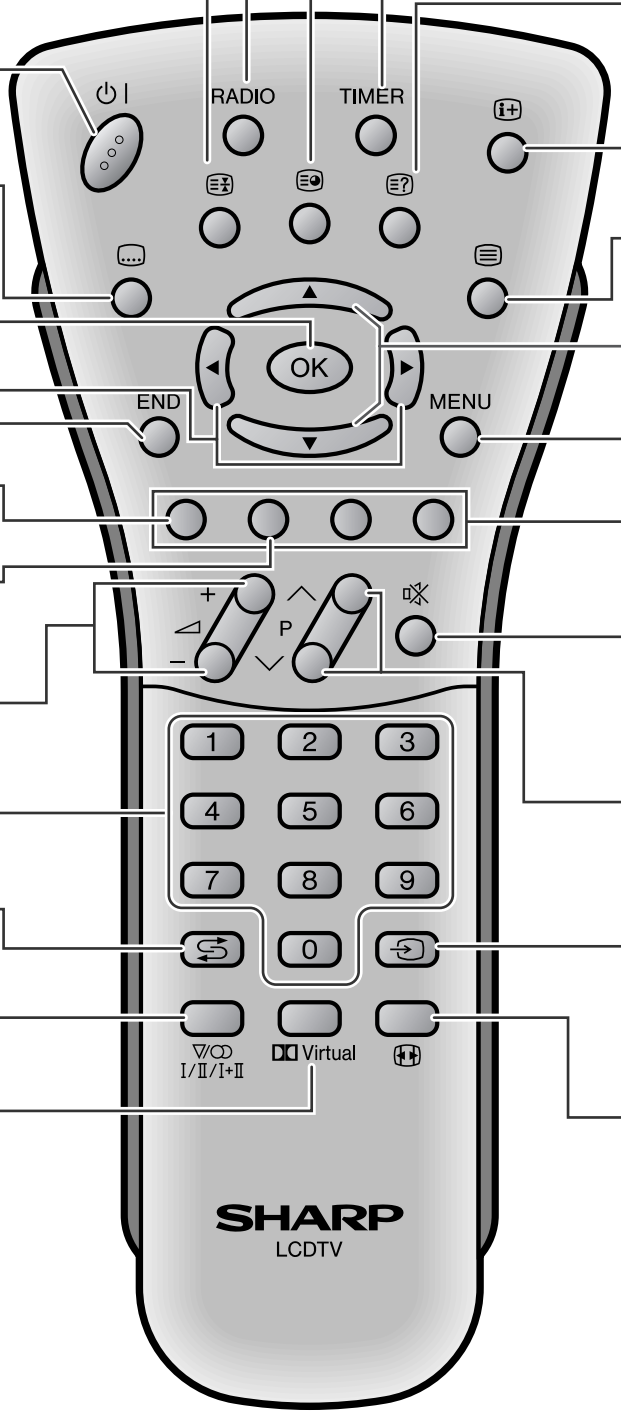
Cautions regarding the remote control unit

- Do not expose the remote control unit to shock.
  In addition, do not expose the remote control unit to liquids, and do not place in an area with high humidity.
- Do not install or place the remote control unit under direct sunlight. The heat may cause deformation of the unit.
- The remote control unit may not work properly if the remote control sensor of the TV is under direct sunlight or strong lighting. In such case, change the angle of the lighting or TV, or operate the remote control unit closer to the remote control sensor.



Part names

Remote control unit



RADIO
Displays the RADIO menu screen and make adjustments for FM RADIO mode. (See page 25.)

(Hold)
Temporarily holds the current Teletext page. (See page 26.)

| (Standby/On)
Turns on and off the power or enters Stand-by mode. (See page 7.)

(Subtitle)
Displays the Teletext Subtitle directly. (See page 26.)

OK
Go to the next step or execute the item.

Select a desired level or item.

END
Exit the menu item.

Red
Displays the "PICTURE LEVELS" menu directly. (See page 9.)

Green
Displays the "SOUND SPEAKER LEVELS" menu directly. (See page 11.)

(+ / −) (Volume)
(+) Increases the volume.
(−) Decreases the volume.

Programme select
Changes programmes or sets the page in Teletext mode.

(Flashback)
Returns to the previous programmes.

(Sound Mode Selector)
Displays the "STEREO" menu screen directly. (See page 13.)

Virtual
Displays the "SOUND EFFECTS" menu screen. (See page 12.)

(Subpage)
Displays the Teletext Subpage in Teletext mode.

TIMER
Displays the "FEATURE TIMERS" menu screen directly. (See page 16.)

(Reveal)
Displays hidden information such as solutions to riddles and puzzles in Teletext mode. (See page 26.)

(Display/Info)
Displays the programme information.

(Teletext)
Displays the Teletext mode screen. (See page 26.)

Programmes List, Upwards/ Downwards Selection

MENU
Displays the menu. (See page 8.)

Colour (Red/Green/Yellow/ Blue)
Teletext mode: Select a page. (See page 26.)

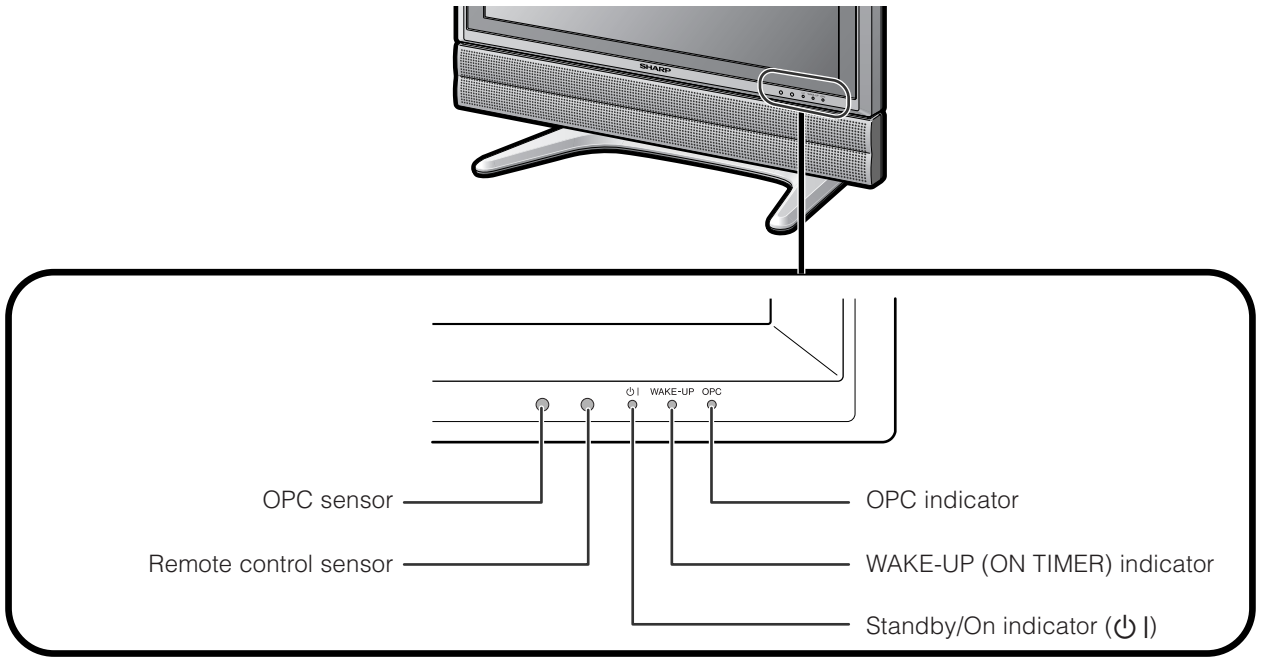
(Mute)
Switches the sound on and off.

P (∧/∨)
∧ Increases programme number.
∨ Decreases programme number.

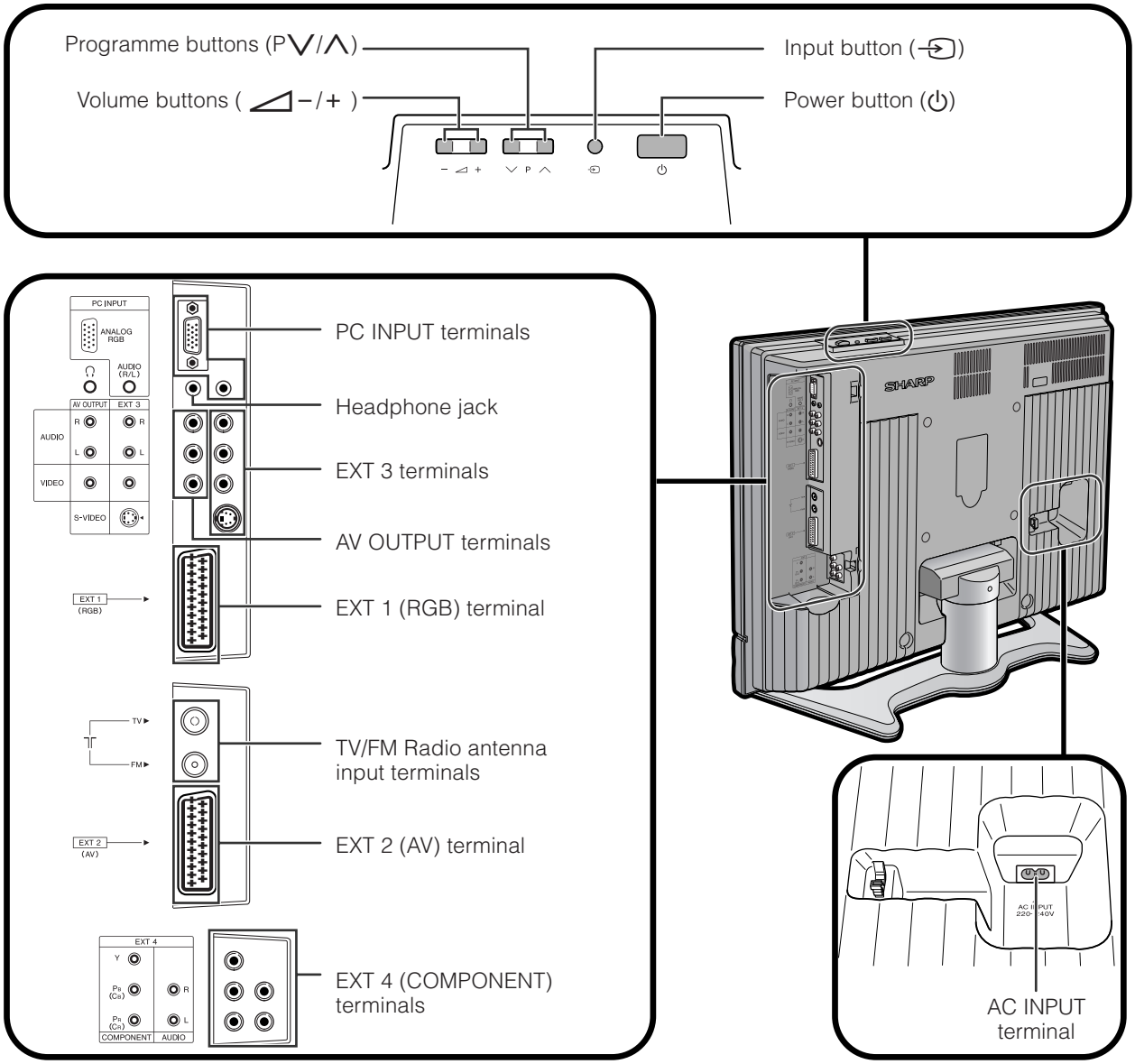
(Input mode)
Display "EXT. SOURCES MENU" menu screen. (See page 22)

(WIDE mode)
Displays the "WIDE MODES" menu screen directly, to select your desired screen size. Sets the area of magnification in Teletext mode. (See page 25.)

TV (Front view)



TV (Rear view)



Watching TV

Turning on the power

Press ⏻ **(Power)** on the TV.

- The Standby/On indicator on the TV changes from red to green.

Turning off the power

To turn off the power, press ⏻ **(Power)** on the TV again.

- The Standby/On indicator on the TV gradually turns off.
- When the TV is turned off by ⏻ **(Power)**, you cannot turn on the power by pressing ⏻ **|** on the remote control.

NOTE

- If you are not going to use this TV for a long period of time, be sure to remove the AC cord from the power outlet.
- Weak electric power is still consumed even when ⏻ **(Power)** is turned off.

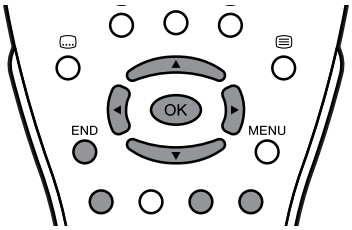
Standby/On

Press ⏻ **|** on the remote control.

- The TV enters Standby/On mode and the image on the screen disappears.
- The Standby/On indicator on the TV changes from green to red.

Initial auto installation

When the TV powers on for the first time after purchase, the initial auto installation is invoked. You can set language, country and automatically search for and store all the receivable TV and FM radio channels.



NOTE

- The initial auto installation functions only once. If the Initial auto installation is not completed, (ex: When menu screen disappeared by not operating for a few minutes, when the power shut down, etc.), try “AUTO INSTALLATION” from the “SETUP” menu. (See page 19.)

1 Setting the on-screen display language

① Press ▲/▼ to select “SELECT LANGUAGE”.

② Press ◀/▶ to select the desired language listed on the screen.

2 Setting the country or area

① Press ▲/▼ to select “SELECT COUNTRY”.

② Press ◀/▶ to select your country or area listed on the screen.

NOTE

- The TV set is ready to preset automatically all local channels for you.
- If you do not intend to use your TV set with a VCR then proceed to step 3.
- If the TV set is being used with a VCR, turn on the VCR and play back a pre-recorded tape. The signal from the RF terminal of your VCR is assigned to a TV programme.

3 Press **OK** to start Auto Channel Preset.

- **Automatic Channel Sorting System (ACSS):** The TV searches for frequencies, memorises the channels found, and sorts them (according to technical criteria).
  For TV channels: from Pr-01 to a maximum of 99 programmes.
  For FM RADIO channels: from Pr-01 to a maximum of 40 programmes.
- This tuning process may take several minutes to perform.
- **You do not need to do anything during the Auto Channel Preset.**

4 When the Auto Channel Preset has been completed, the “EDIT” menu screen is displayed.

- In this menu you can change the order of the channels, delete channels, and change or give the channels an eight-letter name.

Available options in EDIT Menu screen

Button	Mode	Description
◀/▶	TV or RADIO	To select the programmes of “TV” or “RADIO”.
▲/▼	SELECT	To select a programme from the list.
Red	EDIT	Use this mode for giving a name made up of eight-letter to the channels or for changing the one which appears on some channels.
Yellow	DELETE	Use this mode for cancelling channels which are badly tuned or repeated.
Blue	SORT	Use this mode for sorting the channels into the desired programme (Pr).
END	EXIT	To return to the normal screen.

- For more details about “EDIT” menu screen, see page 20.

⬇

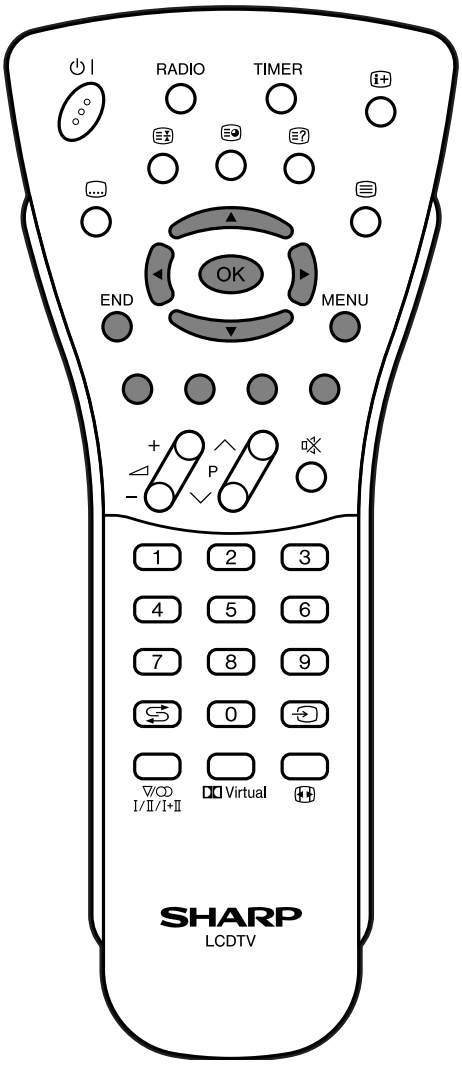
Watching TV

The setup menu disappears and you can watch the programme.

Menu operations

Menu operation buttons

Use the following buttons on the remote control to operate the menu.



MENU: Press to open the menu screen.

▲/▼/◀/▶: Press to select a desired item on the screen or adjust a selected item.

OK: Press to go to the next step or execute the item.

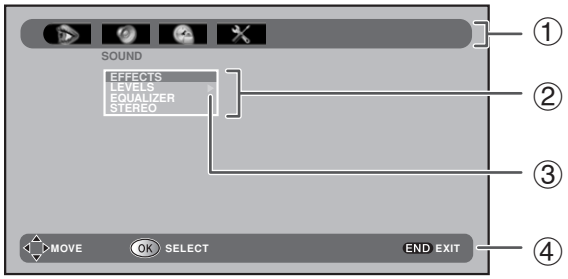
END: Press to exit the menu item.

Colour buttons: Press to go to the menu item screen and select a desired item on the menu.

On-Screen Display

Menu

Press **MENU** to display On-Screen Display.



① Top Menu.

- Press ◀/▶ to select your desired Top Menu.

Example: Top Menu

Top Menu name

: PICTURE
: SOUND
: FEATURES
: SETUP

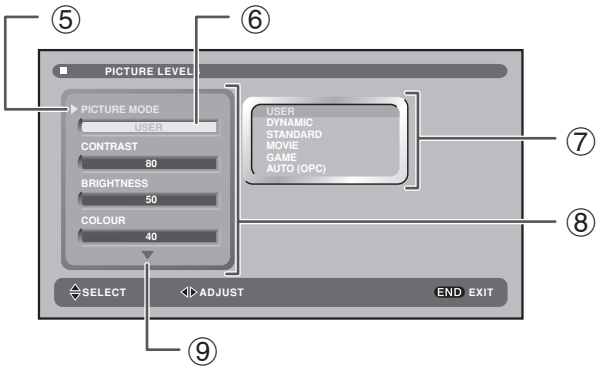
② Sub Menu.
Press **OK** to move to next screen (Menu item).

- Use ▲/▼ to select your desired Sub Menu.
- The selected item is displayed in yellow letters.

③ Indication of the next screen.
Press ▶ to display the next screen.

④ Operation guidance for the remote control.
Follow the operation guidance to adjust/set.

Example: Menu item



⑤ Selected menu item.

⑥ Item currently selected.

⑦ Items available to be set.

⑧ The items for LEVELS menu.

- Press ▲/▼ to select your desired items.

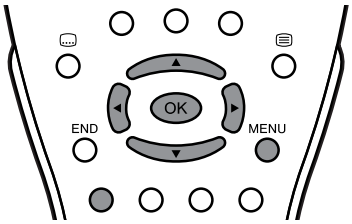
⑨ Indication of the next screen.

- Press ▼ to display the next screen.

PICTURE menu

Using PICTURE menu screen

Common Operation



1 Press **MENU** to display the menu screen.

- The “PICTURE LEVELS” menu screen can be displayed directly by pressing the **Red** button.

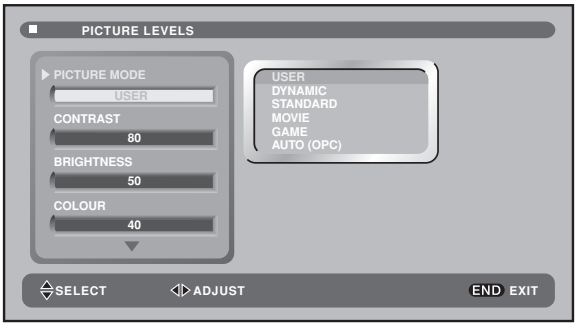
2 Press ◀/▶ to select “PICTURE”.

Selecting an item from PICTURE Group A

① Perform steps 1 and 2 in **Common Operation**.

② Press ▲/▼ to select “LEVELS” or “ADVANCED”, and then press **OK**.

③ Press ▲/▼ to select the desired menu item (Example: “PICTURE MODE”, “CONTRAST” etc).



④ Press ◀/▶ to select/adjust.

LEVELS

✔PICTURE MODE

Menu Operation: PICTURE Group A (left side of this page)

To select a predetermined picture level.

Item

USER: Select this mode in order to recover the “PICTURE” level (“CONTRAST”, “BRIGHTNESS”, “COLOUR”, and “SHARPNESS”) that you had adjusted at the last time. Each time you change one of these adjustments, it is memorized automatically within the option “USER”.

DYNAMIC: This mode has been designed for a clear-cut image emphasising high contrast for sports viewing.

STANDARD: Select this mode if you wish to normalize “PICTURE” levels to default factory settings.

MOVIE: This mode has been designed to be used when watching movies.

GAME: This mode has been designed to be used when watching home video game system.

AUTO (OPC): Select this mode to activate the Intelligent Picture Control. This function allows the automatic adjustment of the screen brightness, according to the ambient light of the room, via OPC (Optical Picture Control).
When set to “AUTO (OPC)”, make sure that no object obstructs the OPC sensor, which could affect its ability to sense surrounding light.

✔Picture adjustments (CONTRAST/BRIGHTNESS/COLOUR/ SHARPNESS)

Menu Operation: PICTURE Group A (left side of this page)

Adjust the picture to your preference with the following picture settings.

Item	◀ Button	▶ Button
CONTRAST	For less contrast	For more contrast
BRIGHTNESS	For less brightness	For more brightness
COLOUR	For less colour intensity	For more colour intensity
SHARPNESS	For less sharpness	For more sharpness

ADVANCED

The “ADVANCED” menu consists of the advanced feature items for the picture adjustments.

NOTE
- “ADVANCED” items cannot be set when the FM radio mode is selected.

✔I/P SETUP

Menu Operation: PICTURE Group A (page 9)

Adjusting the image and input signal can give you a more beautiful picture.

Item

INTERLACE: Use this setting when you cannot get a clear picture with Progressive. (Especially suitable for media with special effects like game software.)
PROGRESSIVE: Normally, you should select this setting.

✔MOV. COMP. (MOVEMENT COMPENSATION)

Menu Operation: PICTURE Group A (page 9)

The “MOV. COMP.” smoothes the quick jumps (movements) of images on the screen, in order to avoid artifacts.

✔COMB FILTER

Menu Operation: PICTURE Group A (page 9)

Set to “ON” to reduce the colour interference in picture with fine details and the picture gets sharper.

✔NOISE RED. (NOISE REDUCTION)

Menu Operation: PICTURE Group A (page 9)

Select your desired item from the three items of “OFF”, “HIGH”, or “LOW” to reduce the noise when receiving a weak signal. “NOISE RED.” provides high quality images with minimal dot crawl and cross colour noise.

✔DYN. CONTRAST (DYNAMIC CONTRAST)

Menu Operation: PICTURE Group A (page 9)

Set to “ON” to increase the contrast on the soft parts of the picture.

✔BACKLIGHT

Menu Operation: PICTURE Group A (page 9)

To adjust your desired screen brightness.

Item	◀ Button	▶ Button
BACKLIGHT	The screen dims	The screen brightens

✔DYN. GAMMA (DYNAMIC GAMMA)

Menu Operation: PICTURE Group A (page 9)

Set to “ON” to increase the brightness on the dark parts of the picture

✔MONOCHROME

Menu Operation: PICTURE Group A (page 9)

For viewing a video in monochrome.

✔COLOUR TEMP. (COLOUR TEMPERATURE)

Menu Operation: PICTURE Group A (page 9)

Adjusts the colour temperature to give the best white image.

Item

HIGH: White with bluish tone
•
•
•
LOW: White with reddish tone

✔NTSC HUE

Menu Operation: PICTURE Group A (page 9)

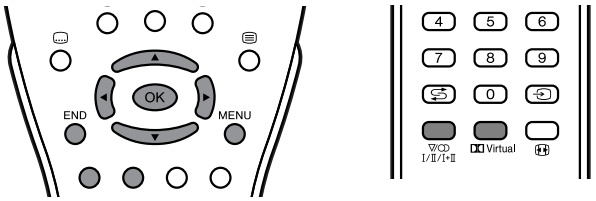
To adjust the skin colour during NTSC signal reception.

Item	◀ Button	▶ Button
NTSC HUE	Skin tones become purplish	Skin tones become greenish

SOUND menu

Using SOUND menu screen

Common Operation



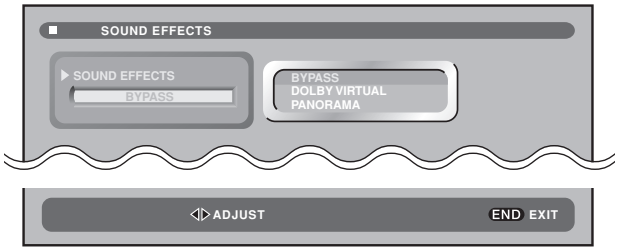
1 Press **MENU** to display the menu screen.

- The “SOUND SPEAKER LEVELS” menu screen can be displayed directly by pressing the **Green** button.

2 Press ◀/▶ to select “SOUND”.

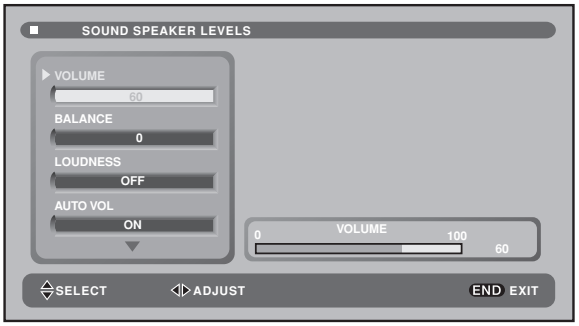
Selecting an item from SOUND Group A

① Perform steps 1 and 2 in **Common Operation**.
② Press ▲/▼ to select “EFFECTS”, and then press **OK**.
③ Press ◀/▶ to select/adjust.



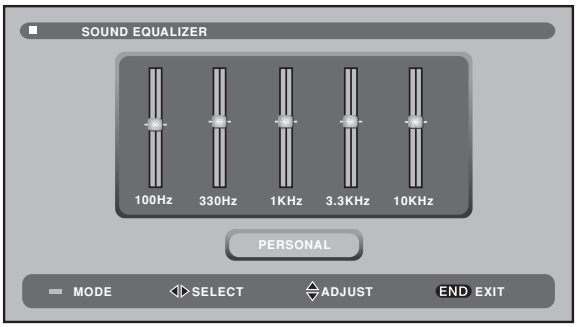
Selecting an item from SOUND Group B

① Perform steps 1 and 2 in **Common Operation**.
② Press ▲/▼ to select “LEVELS”, and then press ▶.
③ Press ▲/▼ to select “SPEAKERS“ or “EXTERNAL”, and then press **OK** .
④ Press ▲/▼ to select the desired menu item (Example: “VOLUME”, “BALANCE” etc).
⑤ Press ◀/▶ to select/adjust.



Selecting an item from SOUND Group C

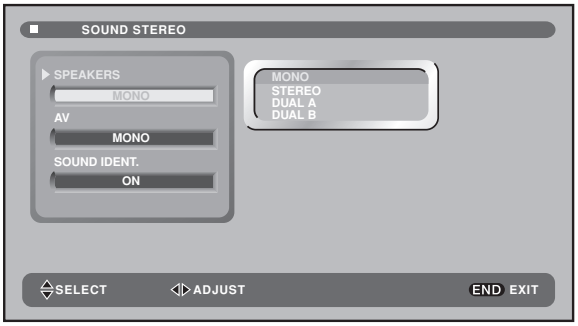
① Perform steps 1 and 2 in **Common Operation**.
② Press ▲/▼ to select “EQUALIZER”, and then press **OK**.
③ **EQUALIZER MODE:** Press the **Red** button to select a pre-defined equalization mode:“PERSONAL”, “CLASSIC”, “JAZZ”, “POP”, “CONCERT” or “STADIUM”.
④ **To change the EQUALIZER MODE “PERSONAL”:**
Press ◀/▶ to select 100Hz, 330Hz, 1KHz, 3.3KHz or 10KHz.
Press ▲/▼ to adjust the item to your desired position.



Selecting an item from SOUND Group D

① Perform steps 1 and 2 in **Common Operation**.
② Press ▲/▼ to select “STEREO”, and then press **OK**.
- The “STEREO” menu screen can be displayed directly by pressing ($\frac{\nabla\text{CD}}{\text{I/II/I+II}}$) (Sound Mode Selector).

③ Press ▲/▼ to select the desired menu item (Example: “SPEAKERS”, “AV” or “SOUND IDENT.”).
④ Press ◀/▶ to select/adjust.



EFFECTS

To select a predetermined sound effect.

✔SOUND EFFECTS

Menu Operation: SOUND Group A (page 11)

Item

BYPASS: Normal sound without sound effect.
DOLBY VIRTUAL: You can also produce "SOUND EFFECTS" from the "SOUND" setting.
1. Divide the centre signal equally between the left and right speakers to achieve a phantom centre image.
2. Process the mono surround channels (or left surround, right surround) signal via a virtualised before sending it to the left, right speakers, creating a virtualised image around the listener.

PANORAMA: This sound reproduction mode mixes all four surround decoder outputs to the left and right output channel without any loss of information and creates a surround like effect with only two speakers.

NOTE
- The "SOUND EFFECTS" menu screen can be displayed directly be pressing **Virtual**.

LEVELS

Adjust the sound quality to suit your preference.

✔SPEAKERS

Menu Operation: SOUND Group B (page 11)

■ VOLUME

Adjust the volume.

Item	◀ Button	▶ Button
VOLUME	Decrease volume	Increase volume

■ BALANCE

Adjust the balance.

Item	◀ Button	▶ Button
BALANCE	Increase the volume of the left	Increase the volume of the right

■ LOUDNESS

This setting increases the volume of low and high frequency signals according to the current volume setting.

Item

OFF: To deactivate the "LOUDNESS".
NORMAL: Keeping the amplitude of the 1 KHz reference frequency constant.
SUPERBASS: Keeping the amplitude of the 2 KHz reference frequency constant.

■ AUTO VOL. (AUTO VOLUME)

Different sound sources, fairly often do not have the same volume level, for example the changing from movie to the advertisements. The Automatic Volume Correction (AUTO VOL.) solves this problem and equalizes the volume levels.

Item

ON: Set to "ON" to equalize the volume levels.
OFF: Set to "OFF" to deactivate the "AUTO VOL.".

■ DYNAMIC BASS

"DYNAMIC BASS" system extends the frequency range to create different bass effects.

Item

OFF: Set to "OFF" to deactivate the "DYNAMIC BASS".
MEDIUM: Set to "MEDIUM", to increase the volume of low frequency signals moderately.
STRONG: Set to "STRONG", to increase the volume of low frequency signals exceptionally.

✔EXTERNAL

Menu Operation: SOUND Group B (page 11)

Adjust the sound level output to the external connectors to suit your preference.

■ SCART VOLUME

To adjust the sound level output to the Euro-SCART connector (EXT1).

Item	◀ Button	▶ Button
SCART VOLUME (EXT1)	Decrease volume output	Increase volume output

■ AV VOLUME

To adjust the sound level output to the external connectors (EXT2 and AV OUTPUT).

Item	◀ Button	▶ Button
AV VOLUME (EXT2 and AV OUTPUT)	Decrease volume output	Increase volume output

EQUALIZER

Menu Operation: SOUND Group C (page 11)

This enables the selection of the pre-defined equalization modes. Each time you press the **Red** button, you can switch EQUALIZER MODE ("PERSONAL"/"CLASSIC"/"JAZZ"/"POP"/"CONCERT"/"STADIUM").

Item

PERSONAL: User configurable mode. Five equalizer bands are available.
CLASSIC: Predefined mode, designed to listen classic music
JAZZ: Predefined mode, designed to listen jazz music
POP: Predefined mode, designed to listen pop music
CONCERT: Predefined mode, designed to listen concert music
STADIUM: Predefined mode, designed to watch sports

STEREO

This enables the selection of the reception mode when receiving a "STEREO" or "DUAL" (bilingual) signal. To let you enjoy "STEREO" and "DUAL" broadcastings, this TV receives stereo, bilingual, and monaural broadcasts.

NOTE

- **About sound mode:** In the "STEREO" menu you can select a sound mode to the SPEAKERS and HEADPHONES, and another to the audio output of the external connectors (EXT 2 and AV OUTPUT).
  Depending on the sound transmission the sound reproduction can be chosen in the "STEREO" menu as indicated below.
- When the TV is receiving a "STEREO" programme, the TV selects "STEREO" automatically, and you can change:

  STEREO ↔ MONO
- When the TV is receiving a BILINGUAL programme, the TV selects DUAL CHANNEL A automatically, and you can change:

  DUAL CHANNEL A ↔ DUAL CHANNEL B ↔ DUAL CHANNEL A B ↔ MONO
- When the TV is receiving a MONO NICAM programme, the TV selects MONO NICAM automatically, and you can change:

  MONO NICAM ↔ MONO (FM)
- When the TV is receiving a MONO (FM) programme, the TV selects MONO automatically but the sound mode cannot be changed.

  Exception: When you are watching the TV through the external sources (EXT1, EXT2, EXT3, EXT3 S-VIDEO), the "STEREO" menu and ($\overset{\nabla/CD}{I/II/I+II}$) (Sound Mode Selector) are not operative.

✔SPEAKERS

Menu Operation: SOUND Group D (page 11)

Change sound mode.
Select your desired mode to your preference depending on the type of broadcast.

✔AV

Menu Operation: SOUND Group D (page 11)

Change sound mode in the audio output of the external connectors. Select your desired mode to your preference depending on the type of broadcast.

✔SOUND IDENT. (SOUND IDENTIFICATION)

Menu Operation: SOUND Group D (page 11)

To activate (ON) or deactivate (OFF) the automatic identification of audio system of the current programme.

Item

ON: The TV automatically identifies the received audio system MONO FM, STEREO or DUAL SIGNAL.
OFF: Disqualifies the automatic identification of the audio system and forces the sound into MONO FM.
This mode can be convenient when the level of the signal received is extremely weak.

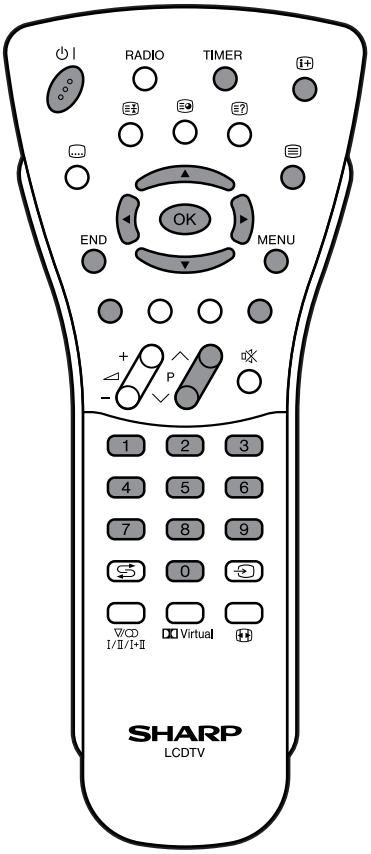
NOTE

- This function is independent for every programme.

FEATURES menu

Using FEATURES menu screen

Common Operation



1 Press **MENU** to display the menu screen.

2 Press ◀/▶ to select “FEATURES”.

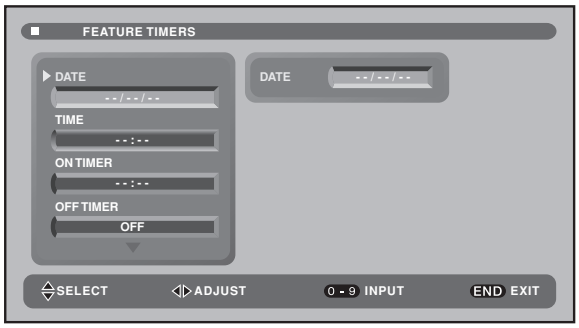
Selecting an item from FEATURES Group A

① Perform steps 1 and 2 in **Common Operation**.

② Press ▲/▼ to select “TIMERS”, then press **OK**.

③ Press ▲/▼ to select the desired menu item (Example: “DATE”, “TIME”, “ON TIMER”, “OFF TIMER”, “RADIO/TV” or “VOL. LIMIT”).

④ Press ◀/▶ to select/adjust or input **0–9**.



Selecting an item from FEATURES Group B

① Perform steps 1 and 2 in **Common Operation**.

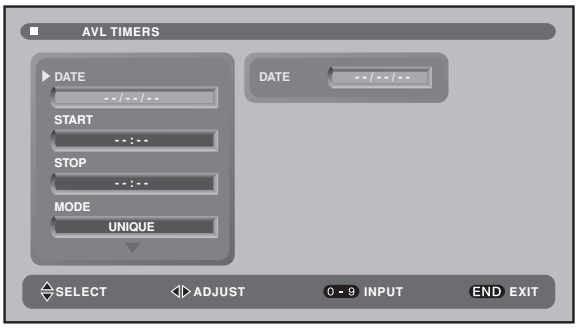
② Press ▲/▼ to select “AV-LINK”, and then press ▶.

③ Press ▲/▼ to select the desired menu item, and then press **OK** (Example: “AVL CONTROL”).

④ Press **OK**, **Blue** or **Red** to select the desired setting.

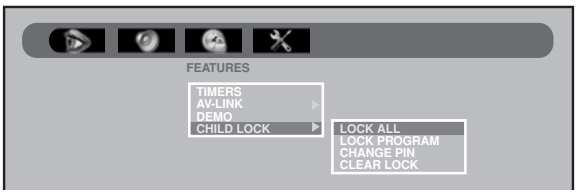
Selecting an item from FEATURES Group C

① Select the programme you wish to record at the specified time, using **Programme select (0–9)**, **Programmes List (▲/▼)** or **P (⋀/⋁)**.
② Perform steps 1 and 2 in **Common Operation**.
③ Press ▲/▼ to select “AV-LINK”, and then press ▶.
④ Press ▲/▼ to select “AVL TIMERS”, and then press **OK**.
⑤ Press ▲/▼ to select the desired menu item (Example: “DATE”, “START” etc).
⑥ Press ◀/▶ to select/adjust or input **0–9**.

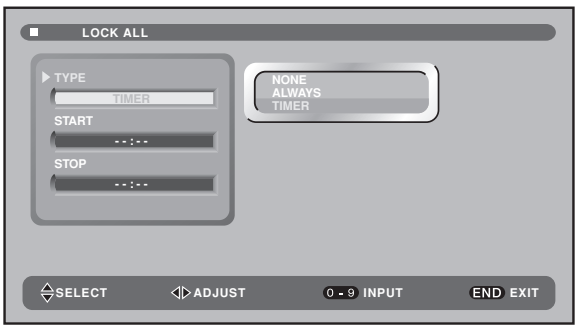


Selecting an item from FEATURES Group D

① Perform steps 1 and 2 in **Common Operation**.
② Press ▲/▼ to select “CHILD LOCK”, and then press ▶.



③ Press ▲/▼ to select “LOCK ALL”, “LOCK PROGRAM”, and then press **OK**.
④ Input the desired four-digit “PIN” with **0–9**, and then press **OK**.
⑤ Press ▲/▼ to select the desired menu item (Example: “TYPE”, “START” etc).
⑥ Press ◀/▶ to select/adjust or input **0–9**, and then press **OK**.



Selecting an item from FEATURES Group E

① Perform steps 1 and 2 in **Common Operation**.
② Press ▲/▼ to select “CHILD LOCK”, and then press ▶.
③ Press ▲/▼ to select “CHANGE PIN”, and then press **OK**.
④ Input your PIN with **0–9**, and then press **OK**.
⑤ Input new PIN with **0–9**, and then press **OK**.

Selecting an item from FEATURES Group F

① Perform steps 1 and 2 in **Common Operation**.
② Press ▲/▼ to select “CHILD LOCK”, and then press ▶.
③ Press ▲/▼ to select “CLEAR LOCK”, and then press **OK** .
④ Input your PIN with **0–9**, and then press **OK**.

TIMERS

You can set “DATE”, “TIME” (Clock), “ON TIMER” (Wake-up timer) and “OFF TIMER” (Sleep timer) to automatically turn on and off the TV or RADIO at the specified time.
You can also set “ON TIMER” to automatically turn on at the specified sound volume.
The Timer functions that turn power on at the specified time do not work unless the clock has been adjusted. Be sure to adjust the “DATE” and the “TIME” (Clock) first.

NOTE

- The “FEATURE TIMERS” menu screen can be displayed directly by pressing **TIMER**.
- “DATE” and “TIME” are automatically set/corrected via the Teletext broadcast when available.
- When you set “ON TIMER”, the WAKE-UP indicator lights up Red while in the Stand-by mode.
- “ON TIMER” and “OFF TIMER” will not be activated if the power is turned off with ⏻ (**Power**) on the TV.
- In the event of a power cut, disconnection from the plug or TV switch, all the data on the “ON TIMER” and “OFF TIMER” will be cancelled.
- As a safety precaution, in the case of nobody being home when the TV or RADIO switches on automatically, the TV will return to Stand-by mode after 120 minutes; if it is to continue to run, any button on the remote control functions should be pressed.
- The “OFF TIMER” data will be cancelled if you turn off the TV by ⏻ | (Stand-by/On) on the remote control.
- You can check the timer settings by pressing i+ (Display/Info.)

✔DATE/TIME

Menu Operation: FEATURES Group A (page 14)

Current date and Current time are necessary to set in order to be able to run the Timer functions.

Automatic adjustment: If a programme with Teletext is being received, the “DATE” and “TIME” can be adjusted automatically with that signal’s clock.

Press ☰ to synchronize “DATE” and “TIME”.

- If a signal via satellite is being received, or if correct date or time, cannot be obtained, “DATE” and “TIME” will have to be adjusted manually.

Manual adjustment: Press the **Programme select (0–9)** to adjust “DATE” and “TIME” manually.

Item	Buttons	Input value choice
DATE	**0–9** or ☰	DD/MM/YY (day/month/year)
TIME (Clock)	**0–9** or ☰	HH:MM (hour:minute)

✔ON TIMER (Wake-up timer)

Menu Operation: FEATURES Group A (page 14)

The “ON TIMER” is used to programme switching ON the TV or RADIO during the 24 hours of the day.
When “ON TIMER” has been set, press ⏻ | on the remote control to put the TV into Stand-by mode.
When the preset time is reached, the TV or RADIO turns ON.

Item	Buttons	Input value choice
ON TIMER (Wake-up timer)	**0–9**	HH:MM (hour:minute)
	◀/▶	- - : - - (To cancel “ON TIMER”)

✔OFF TIMER (Sleep timer)

Menu Operation: FEATURES Group A (page 14)

The “OFF TIMER” is used to programme switching the TV to Stand-by mode, after the set length of time has passed.

Item	Buttons	Input value choice
OFF TIMER (Sleep timer)	◀/▶	OFF, 30, 60, 90 or 120 (minutes)

✔RADIO/TV

Menu Operation: FEATURES Group A (page 14)

For the “ON TIMER” (Wake-up timer), you can select the mode (TV or RADIO) to automatically turn on.

✔VOL. LIMIT (VOLUME LIMIT)

Menu Operation: FEATURES Group A (page 14)

For the “ON TIMER” (Wake-up timer), you can adjust the sound volume when TV or RADIO automatically turns on.

AV-LINK

This feature can only be used with Next View, Smart Link, Easy Link and Megalogic compatible VCR.
This "Intelligent" communication system allows controlling some VCR functions from the TV and vice versa.
For example, it is possible to programme the VCR timer recording from the TV or record the signal currently being displayed on the TV regardless of the signal source.
In this case, the VCR and the TV must be connected through the 21-pin Audio/Video connector especially available for this function (EXT2 terminal in this TV) using the fully-wired SCART cable.
Refer to your VCR operation manual for further information.

✔AVL CONTROL (AV-LINK CONTROL)

Menu Operation: FEATURES Group B (page 14)

Use this menu to "PRESET DOWNLOAD" and to "RECORD WHAT YOU SEE".

Item	Buttons	Input value choice
PRESET DOWNLOAD	**OK**	Automatically transfers the channel preset information from the tuner on the TV to the one on the connected VCR via the **EXT2** terminal.
START RECORDING	**Blue**	While the VCR is in standby mode, it automatically turns on and starts recording the image from the TV (Record what you see).
STOP RECORDING	**Red**	The TV indicates the VCR that must stop the recording.

✔AVL TIMERS (AV-LINK TIMERS)

Menu Operation: FEATURES Group C (page 15)

In this menu you can set a late start and stop time for a recording.

■ DATE

Set the recording date.

Item	Buttons	Input value choice
DATE	**0–9**	DD/MM/YY (day/month/year)

■ START

Set the time of recording beginning.

Item	Buttons	Input value choice
START	**0–9**	HH:MM (hour:minute)

■ STOP

Set the time of recording end.

Item	Buttons	Input value choice
STOP	**0–9**	HH:MM (hour:minute)

■ MODE

If you want to make additional recordings at the same time each day, from Monday to Friday or weekly, select "DAILY", "MON-FRI" or "WEEKLY".

Item	Buttons	Input value choice
MODE	◀/▶	UNIQUE, MON-FRI, DAILY or WEEKLY

NOTE
- "MODE" (UNIQUE/MON-FRI/DAILY/WEEKLY) can be changed only if the video has these functions available.

■ SPEED

Use this setting to change recording speed between "SP" Standard-Play and "LP" Long-Play.
Standard-Play gives the best picture quality. Long-Play provides the longest recording time.

Item	Buttons	Input value choice
SPEED	◀/▶	LP or SP

NOTE
- "SPEED" (SP/LP) can be changed only if the video has these functions available.

DEMO

The "DEMO" (demonstration) function allows you to see all the menus implemented in this TV.

CHILD LOCK

Use the “CHILD LOCK” function to block access to the television by means of a 4-digits code (PIN).
The protection can apply to the television itself “LOCK ALL” or to specific programmes “LOCK PROGRAM”.
With the “CHILD LOCK” function, you can also programme a time period during which the TV or the programmes will be protected. (Your children cannot select the programme, which you locked).

IMPORTANT
- Refer to page 31 for “IMPORTANT NOTE ON DISENGAGING ADVANCED CHILD LOCK”.

NOTE
- If the protection is timed, the blocking of the TV or programmes will only occur during the time period programmed.
- In order for the timed protection to function correctly, the internal clock must be set at the right time. To check the time setting, see **DATE/TIME** on page 16.

✔LOCK ALL

Menu Operation: FEATURES Group D (page 15)

To set a Child Lock to the whole TV.

NOTE
- **Access to protected modes:** When the TV is protected in “LOCK ALL” way, it will be blocked when switched on and the instruction “INPUT YOUR PIN” will appear on the screen.
  In order to view your TV you must press **0–9** of your Secret Number “PIN” and **OK**.
  If the “PIN” is not entered, only ⏻ **(Power)** on the TV and (⏻ I) (Standby/On) on the remote control will operate.

■ TYPE

To set the desired period you wish locked the TV.

Item

NONE: To cancel the protection.
ALWAYS: The access to the TV will be protected always.
TIMER: The access to the TV will be protected during the programmed period. If you have set “TIMER”, it is indispensable to set “START” and “STOP” period.

■ START

To enter the hour and minutes, from the beginning of protection.

Item	Buttons	Input value choice
START	0–9	HH:MM (hour:minute)

■ STOP

To enter the hour and minutes, to the end of protection.

Item	Buttons	Input value choice
STOP	0–9	HH:MM (hour:minute)

✔LOCK PROGRAM

Menu Operation: FEATURES Group D (page 15)

To set a Child Lock for individual programmes.

NOTE
- **Access to protected modes:** When one or several programmes are protected, the TV will block any attempt to gain access to them and the instruction “INPUT YOUR PIN” will appear on the screen.
  In order to view these programmes you must press **0–9** of your Secret Number “PIN” and **OK**.
  If the “PIN” is not entered, only **P (∧/∨)** for changing programmes, ⏻ **(Power)** on the TV and (⏻ I) (Standby/On) on the remote control will operate.

■ TYPE

To set the desired period you wish locked the TV.

Item

NONE: To cancel the protection from the selected programme.
ALWAYS: The access to the selected programme will be protected always.
TIMER: The access to the selected programme will be protected during the programmed period. If you have set “TIMER”, it is indispensable to set “START” and “STOP” period.
AUTO(VPS): To activate the automatic protection.The selected programme will only be blocked when it receives the “VPS” signal*.

* When the programme that is being shown is not suitable for children, some broadcasting stations send this “VPS” signal, for activating the automatic protection.

■ PROGRAMME

Select the programme number you want to protect.

Item	Buttons	Input value choice
PROGRAMME	0–9	Programme number you want to set.

■ START/STOP

Refer to “START” and “STOP” in “LOCK ALL.” (left side of this page)

✔CHANGE PIN

Menu Operation: FEATURES Group E (page 15)

To set a new PIN.

✔CLEAR LOCK

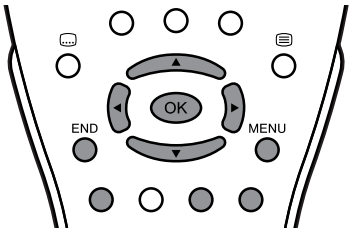
Menu Operation: FEATURES Group F (page 15)

This option enables you to erase all the adjustments made to the CHILD LOCK function except the PIN.

SETUP menu

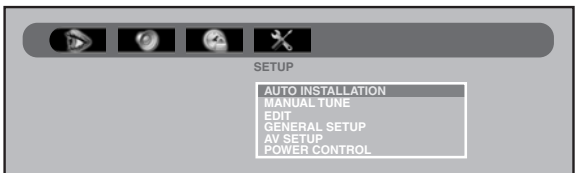
Using SETUP menu screen

Common Operation



1 Press **MENU** and the menu screen displays.

2 Press ◀/▶ to select “SETUP”.



Selecting an item from SETUP Group A

① Perform steps 1 and 2 in **Common Operation**.

② Press ▲/▼ to select “AUTO INSTALLATION”, and then press **OK**.

③ Press ◀/▶ to select the desired language for the on-screen display.

④ Press ▼ to select “SELECT COUNTRY”, and press ◀/▶ to select your country.

⑤ Press **OK** to start Auto Channel Preset.
- **You do not need to do anything during the Auto Channel Preset.**

⑥ When the Auto Channel Preset has been completed, the “EDIT” menu screen is displayed.

Selecting an item from SETUP Group B

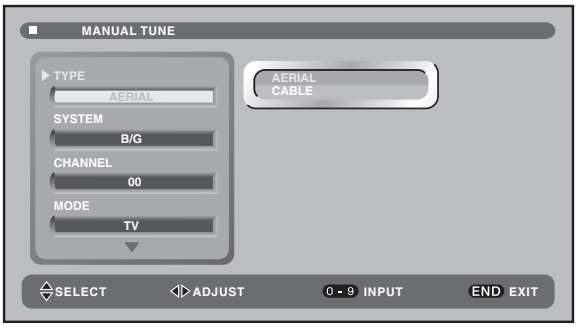
① Select the programme number you want to preset with **Programme select (0-9)** or **Programme List (▲/▼)**.

② Perform steps 1 and 2 in **Common Operation**.

③ Press ▲/▼ to select, “MANUAL TUNE”, and then press **OK**.

④ Press ▲/▼ to select the desired menu item (Example: “TYPE”, “SYSTEM” etc).

⑤ Press ◀/▶ or **Programme select (0-9)** to select/adjust.



AUTO INSTALLATION

Menu Operation: SETUP Group A (left side of this page)

In this menu you can perform the Initial Auto Installation again.
Using this routine, you can select the on-screen display “SELECT LANGUAGE”, set the “SELECT COUNTRY”, and automatically search for and store all the receivable TV and FM radio channels.

- **Automatic Channel Sorting System (ACSS):** The TV set searches for frequencies, memorises the channels found, and sorts them (according to technical criteria).
  For TV channels: from Pr-01 to a maximum of 99 programmes.
  For FM RADIO channels: from Pr-01 to a maximum of 40 programmes.
- This tuning process may take several minutes to perform.

When the automatic search has been completed, the “EDIT” menu (Stored Programmes) will appear on screen and you can change the order of the channels, delete channels, and change or give the channels an eight-letter name. (See page 20.)

MANUAL TUNE

Perform the procedure to search for and store new TV programmes after the First Installation routine.
(e.g. when a new TV broadcasting station being installed on your geographic area).

✔TYPE

Menu Operation: SETUP Group B (left side of this page)

Select your desired item to your preference from the two items of “AERIAL” or “CABLE”.

✔SYSTEM

Menu Operation: SETUP Group B (left side of this page)

For more information, see the table “Corresponding real channel” on page 29.

Band	System	Real Channel Number
VHF	L/L’	CH-02 — CH-10
	B/G	CH-02 — CH-20
	I	CH-01 — CH-09
	D/K	CH-02 — CH-12
UHF	B/G, D/K, I, L/L’	CH-21 — CH-69
CATV	L/L’	CC-01 — CC-74
	B/G	CC-01 — CC-55
		CH-75 — CH-79
	I	CC-01 — CC-68
	D/K	CC-01 — CC-41

✔CHANNEL

Menu Operation: SETUP Group B (page 19)

Item

CHANNEL: Real Channel Number (See the table in SYSTEM on page 19.)

NOTE

- Receivable channels depending on TV norm (Band, System, etc.), installation site, and range.

✔MODE

Menu Operation: SETUP Group B (page 19)

This feature allows you to set the programmes to “TV”, “VCR” or “SKIP” mode.

Item

TV: If the TV signal is weak the image can shake. In this case put it in TV mode.

VCR: In some cases, the upper part of the picture may be distorted when receiving signal from a VCR via RF terminal on the TV set. Selecting this option will help to reduce this effect.

SKIP: Allows you to SKIP programmes you do not want to view when using **P (∧/∨)**. (Use **Programme Select (0–9)** or **Programmes list (▲/▼)** to display these channels)

✔FINE TUNE

Menu Operation: SETUP Group B (page 19)

When a preset programme channel is not exactly tuned, you can fine-tune the channel in this mode.

NOTE

- Press and hold ◀/▶, until the best tuning position is found, for the best picture and sound, and then press **OK** to memorise.

✔SCAN

Menu Operation: SETUP Group B (page 19)

Press ◀/▶ to “SCAN” between the existing channel and the previous or next one.

- The tuning sequence will stop when a signal is detected.
- If the signal is not the required channel, press ◀/▶ to continue searching.
- If the signal is the required channel, press **OK** to memorise.

Item	◀ Button	▶ Button
SCAN	It searches the following channel downward	It searches the following channel upward

EDIT

In this menu you can change the order of the channels, delete channels, and change or give the channels an eight-letter name.

Available options in EDIT menu screen

Button	Mode	Description
◀/▶	TV or RADIO	To select the programmes of “TV” or “RADIO”.
▲/▼	SELECT	To select a programme from the list.
Red	EDIT	Use this mode for giving a name made up of eight-letter to the channels or for changing the one which appears on some channels.
Yellow	DELETE	Use this mode for cancelling channels which are badly tuned or repeated.
Blue	SORT	Use this mode for sorting the channels into the desired programme (Pr).
END	EXIT	To return to the normal screen.

“EDIT” Mode (Change of Name)

① Press ▲/▼ to change the letters, and press ◀/▶ for changing the position of the cursor.

② Press **OK** to “STORE” the name.

③ Press **END** to exit.

NOTE

- The position of the cursor will appear on screen in a yellow background.
- Letters A to Z of the alphabet, a blank space and the numbers 0 to 9 will appear sequentially.

“DELETE” Mode (Deleting channels)

① Press **OK** to delete the channel selected on the list.

② Press **END** to exit.

NOTE

- When you delete a channel, the channels that follow it on the list will automatically rearrange themselves by moving up one programme (Pr) place, to restore the space of the cancelled channel.

“SORT” Mode (Sorting channels)

① Press ▲/▼ to move the channel to the required position (Pr).

② Press **OK** to “STORE”.

NOTE

- When you change of site a channel, the located channels next are rearranged. By such reason, it is advisable to order the channels, being begun by which you wish to place in the first position (Pr1).

Selecting an item from SETUP Group C

① Press **MENU** and the menu screen displays.
② Press ◀/▶ to select "SETUP".
③ Press ▲/▼ to select "GENERAL SETUP", "AV SETUP", or "POWER CONTROL", and then press **OK**.
④ Press ▲/▼ to select the desired menu item.
⑤ Press ◀/▶ to select/adjust.

GENERAL SETUP

The "GENERAL SETUP" menu consists of the generally used setting items.

✔OSD LANGUAGE

Menu Operation: SETUP Group C (left side of this page)

You can select a language from setup menu. Select from among 13 languages.

Available language list

DUTCH
ENGLISH
FINNISH
FRENCH
GERMAN
GREEK
ITALIAN
POLISH
PORTUGUESE
RUSSIAN
SPANISH
SWEDISH
TURKISH

✔FACTORY SETTINGS

Press **OK** to set the factory presets.

✔TTX CHAR. SET (TELETEXT CHARACTER SET)

Menu Operation: SETUP Group C (left side of this page)

You can select a character set from the items listed on the screen.

✔WSS (Wide Screen Signaling)

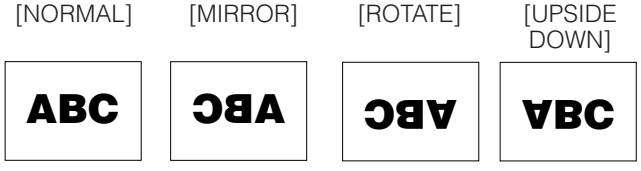
Menu Operation: SETUP Group C (left side of this page)

WSS allows a television to switch automatically among the different screen formats.
Select "ON" to activate the "AUTO" function, located in the "WIDE MODES" menu screen (page 25).

✔ROTATION

Menu Operation: SETUP Group C (left side of this page)

You can set the orientation of the picture by this function.



AV SETUP

Menu Operation: SETUP Group C (left side of this page)

In this menu, you can configure the input terminals in concordance with the connected device and the signal type.

Input type	Item
EXT 1	VCR, DVD, AUTO
EXT 2	VCR, DVD, AUTO
EXT 3	VCR, DVD, AUTO
EXT 3 S-VIDEO	VCR, DVD, AUTO
EXT 4[*1]	SD, HD

[*1] Component signal

Selected value	Description
VCR	For viewing the signals from a Video Cassette Recorder equipment through the selected input terminal.
DVD	For viewing the signals from a Digital Video/Versatile Disc equipment through the selected input terminal.
AUTO	For auto detection of the input signal type.
SD (Standard Definition)	For viewing the signals from video equipment, with output COMPONENT of Standard Definition, connected through the EXT4 input terminals.
HD (High Definition)	For viewing the signals from video equipment, with output COMPONENT of High Definition, connected through the EXT4 input terminals.

POWER CONTROL

Power control setting allows you to save energy.

✔POWER MANAGEMENT

Menu Operation: SETUP Group C (left side of this page)

After connecting to PC, you can select ON/OFF to disappear the background image on the TV when the TV stops receiving the image signal from PC in the PC INPUT mode.

✔NO SIGNAL OFF

Menu Operation: SETUP Group C (left side of this page)

When set to "ON", the power will automatically shut down if no signal inputs for 15 minutes.

✔NO OPERATION OFF

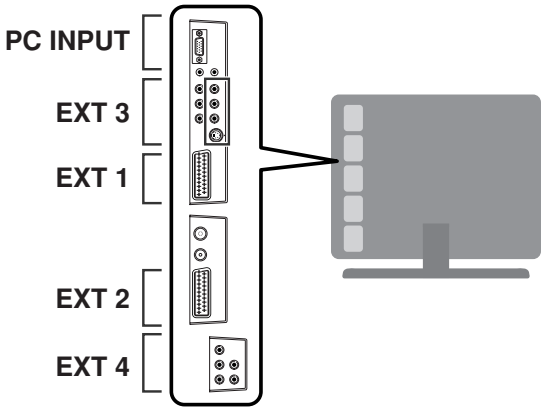
Menu Operation: SETUP Group C (left side of this page)

When set to "ON", the power will automatically shut down if there is no operation for 3 hours.

Using external equipment

You can connect many types of external equipment to your TV, like a decoder, VCR, DVD player, PC, game console and camcorder.
To view or select the input source, see the operations below.

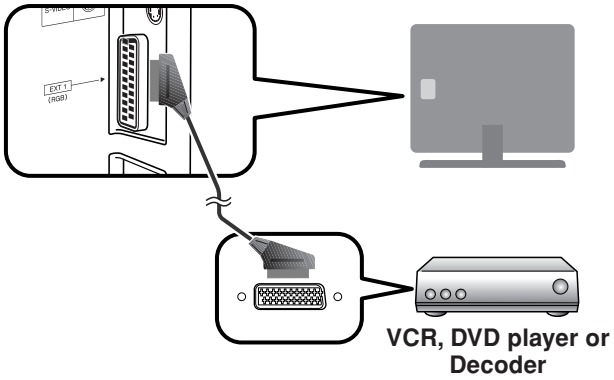
Using ⏎ on the TV: Press ⏎. Each time you press ⏎, the input source will change.
Using ⏎ on the remote control: Press ⏎. Press ▲/▼ to select your desired input source, and then press **OK**.



NOTE
• Before connecting external equipment to your TV, see page 21.

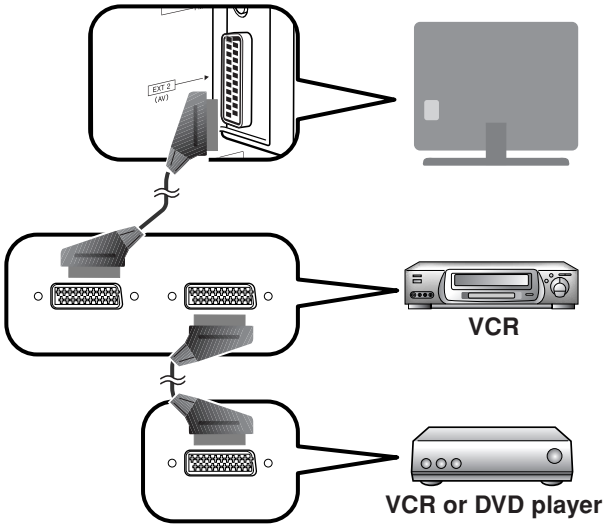
EXT 1

You can use the EXT 1 terminal when connecting a decoder and other audiovisual equipment.



EXT 2

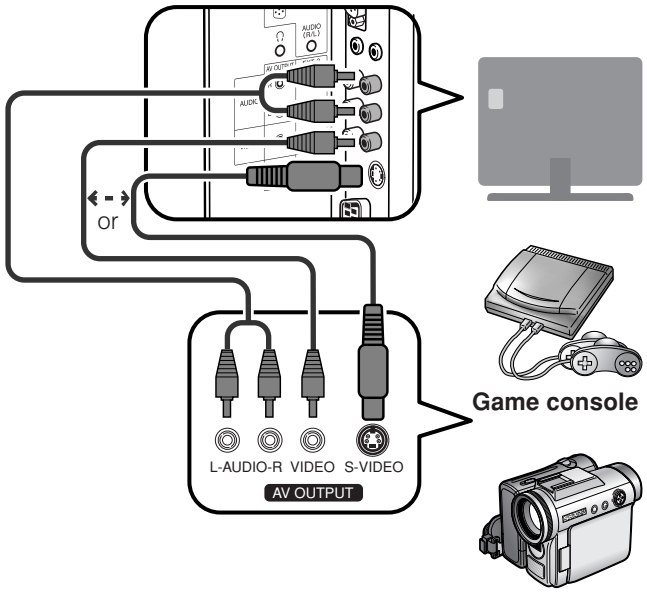
You can use the EXT 2 terminal when connecting a VCR and other audiovisual equipment.



NOTE
• TV-VCR advanced “AV LINK” systems may not be compatible with some external sources.

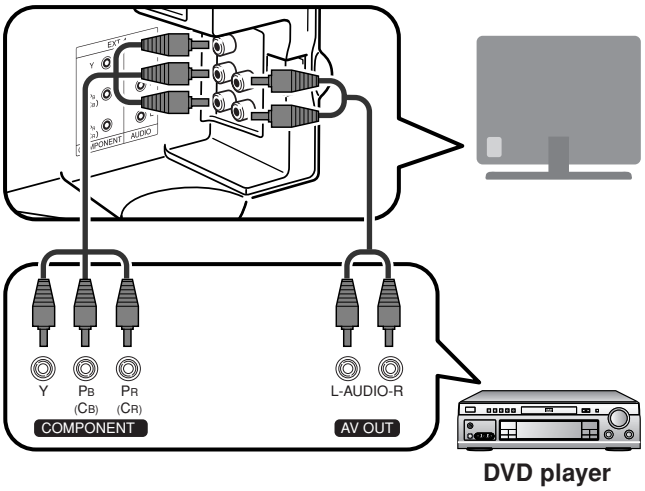
EXT 3

A game console, camcorder and some other audiovisual equipment are conveniently connected using the EXT 3 terminals.



EXT 4

You can use the EXT 4 terminals when connecting to a DVD player and other audiovisual equipment.

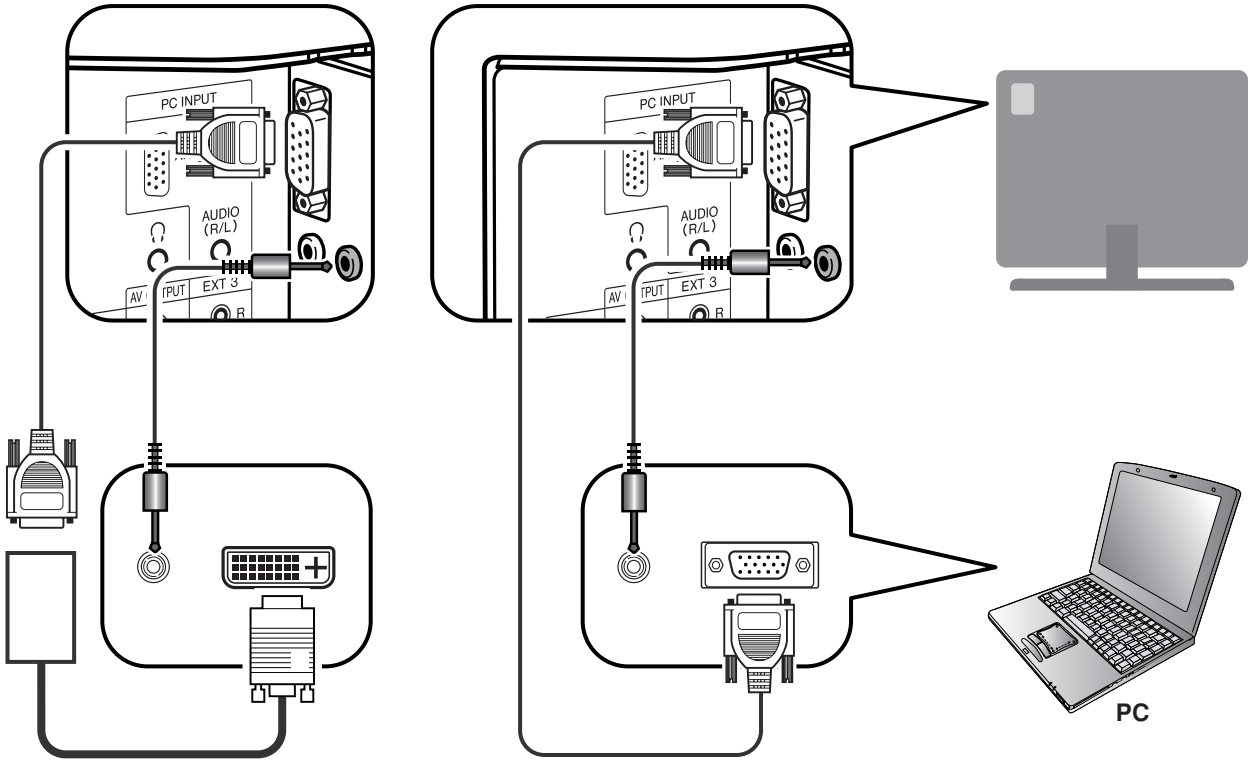


NOTE

- The S-VIDEO terminal has priority over the VIDEO terminals.
- You can also connect the game console to EXT 1 or 2 terminals to enjoy clearer picture.

PC INPUT

Use the PC INPUT terminal to connect a PC.



NOTE

- The PC INPUT terminals are DDC1/2B-compatible.

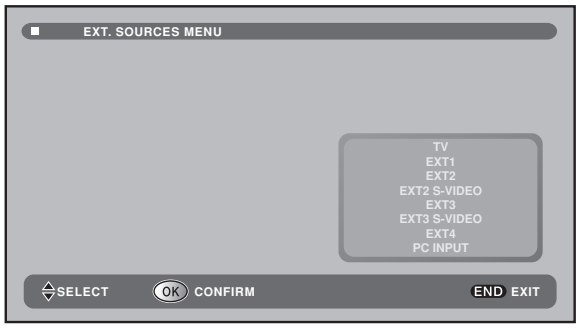
Useful adjustment settings

PC INPUT mode adjustments

PICTURE/SOUND adjustments

After connecting the PC to your TV (see page 23), you can adjust the "PICTURE" and "SOUND" modes to your preference setting with the following steps.

1 Press ⊣⊖ to display the "EXT. SOURCES MENU" screen.



2 Press ▲/▼ to select "PC INPUT", and then press **OK** to display PC image on your TV.

3 **For PICTURE setting:**
Press **MENU** or **Red** to display PICTURE setting.

① Press ▲/▼ to select your desired PICTURE item. (CONTRAST/BRIGHTNESS/PHASE/CLOCK)

② Press ◀/▶ to adjust the item to your desired position.
③ Press **END** to exit.

For SOUND setting:
Press **Green** to display SOUND setting.

① Press ▲/▼ to select your desired SOUND item. (VOLUME/BALANCE/LOUDNESS/DYN. BASS/MODE)

② Press ◀/▶ to adjust your desired position or select your desired item.
③ Press **END** to exit.

Image position

After connecting the PC to your TV (see page 23), you can adjust a picture's horizontal or vertical position with the following steps.

1 Perform steps 1 to 2 in **PICTURE/SOUND adjustments**.

2 **For adjusting H-POS/V-POS:**

① Press ◀/▶ to centre the image by moving it to the left or right.
② Press ▲/▼ to centre the image by moving it to the up or down.

PC compatibility chart

Resolution		Vertical Frequency 60Hz
VGA	640 x 400	O
	720 x 400	O
	640 x 480	O
WVGA	848 x 480	O
SVGA	800 x 600	O
XGA	1024 x 768	O
WXGA	1280 x 720	O
	1280 x 768	O
SXGA	1280 x 1024	O

HD mode adjustments

Select the AV SETUP in SETUP menu. (See page 21.) And after selecting "HD" from "EXT4" in "AV SETUP" menu, you can adjust the "PICTURE" and "SOUND" modes to your preference setting when your TV receives HD signal image.

1 Select "HD" from EXT4 in AV SETUP menu.

2 Press ⊣⊖ to display the "EXT. SOURCES MENU" screen.

3 Press ▲/▼ to select "EXT4", and then press **OK**.

4 **For PICTURE setting:**
Press **MENU** or **Red** to display PICTURE setting.

① Press ▲/▼ to select your desired PICTURE item. (CONTRAST/BRIGHTNESS/COLOUR/SHARPNESS)

② Press ◀/▶ to adjust the item to your desired position.
③ Press **END** to exit.

For SOUND setting:
Press **Green** to display SOUND setting.

① Press ▲/▼ to select your desired SOUND item. (VOLUME/BALANCE/LOUDNESS/DYN. BASS/MODE)

② Press ◀/▶/▲/▼ to adjust your desired position or select your desired item.
③ Press **END** to exit.

FM Radio menu screen

You can make adjustments for FM radio broadcasting by using **RADIO** on the remote control.

1 Press **RADIO** to display the RADIO MENU screen.

2 Press ▲/▼ to select the preset radio channel.

3 Press ◀/▶ to adjust the volume.

4 Press **END** to exit the MENU screen.

And you can also add a new radio channel or change the preset channel settings by pressing **OK**.

You can display the TUNE mode by pressing **Red**.

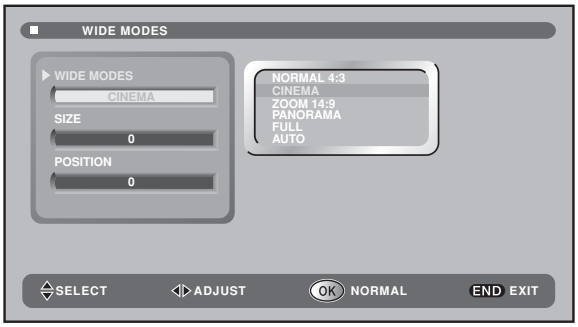
WIDE MODES

You can select the display size by pressing ⊞ on the remote control.

NOTE
- "WIDE MODES" cannot be set when the FM radio mode is selected.

Manual selection

1 Press ⊞ to display the "WIDE MODES" menu screen.



2 Press ▲/▼ to select "WIDE MODES". And then select your desired screen size format among "NORMAL 4:3", "CINEMA", "ZOOM 14:9", "PANORAMA", "FULL" or "AUTO" by pressing ◀/▶.

Item

NORMAL 4:3: For 4:3 "standard" pictures. A side bar appears on each side.
CINEMA: For 16:9 broadcast cinema movies, etc. Bars may appear on the top and bottom with some programmes.
ZOOM 14:9: A thin side bar appears on each side, and you may also see bars on the top and bottom with some programmes.
PANORAMA: In this mode the picture is progressively stretched toward each side of the screen.
FULL: For 16:9 squeeze pictures.
AUTO: In this mode the screen size changes automatically.

When you select "CINEMA", "ZOOM 14:9" or "PANORAMA", you can change the vertical "SIZE" and vertical "POSITION".

1 Perform 1 and 2 described on the left to select "CINEMA", "ZOOM 14:9" or "PANORAMA".

2 Press ▲/▼ to select "SIZE" or "POSITION". The "SIZE" or "POSITION" indicator will be displayed.

3 Press ◀/▶ to adjust the item to your desired size and position.

4 Press **OK** if you wish to normalize the vertical "SIZE" or vertical "POSITION".

5 Press **END** to exit.

Auto selection

Some broadcasting station send the WSS signal with information of original screen size. When the TV is in "AUTO" mode and receives the WSS signal, it changes the screen size automatically.

1 Press ⊞ on the remote control to display the "WIDE MODES" screen.

2 Press ▲/▼ to select "WIDE MODES". And then select "AUTO" by pressing ◀/▶.

When the TV is receiving	The TV selects automatically
WSS code 16:9	CINEMA
WSS code 14:9	ZOOM 14:9
WSS code	PANORAMA

NOTE
- When you are watching the TV through the external sources (EXT1 or EXT2), and it receives information of 16:9 format (through the audio-video control pin) the TV selects "FULL" automatically.
- In order for the "AUTO" to function correctly, the "WSS" item must be set "ON" in the "GENERAL SETUP" menu. To check it, see page 21.

Useful features

Teletext function

What is Teletext?

Teletext broadcasts pages of information and entertainment to specially equipped television sets. Your TV receives Teletext signals broadcast by a TV network, and decodes them into graphical format for viewing. News, weather and sports information, stock exchange prices and programme previews are among the many services available.

Teletext mode

Teletext is turned on/off with ☰ on the remote control unit. You can operate your TV in Teletext mode directly by inputting commands with the remote control unit.

Turning on and off Teletext

1 Select a TV channel or external input source providing the Teletext programme.

2 Press ☰ again to display the Teletext on the left screen and normal image on the right screen.

3 Press ☰ again to display the Teletext on the whole screen.

4 Press ☰ again to display the normal image only.

When viewing the Teletext information

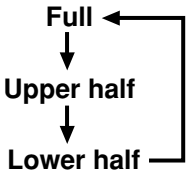
- Press **P**∧ to increase the page number.
- Press **P**∨ to decrease the page number.

Button functions

Colour (Red/Green/Yellow/Blue):
You can select a group or block of pages displayed in the coloured brackets at the bottom of the screen by pressing the corresponding the **Colour (Red/Green/Yellow/Blue)** buttons on the remote control unit.

0 – **9**:
Directly select any page from 100 to 899 by using **0** – **9**.

⇔:
Each time you press ⇔, the TELETEXT image switches as shown below.



?:
To reveal hidden information such as an answer to a quiz, press ?.

- Press ? again to hide the information.

:
To stop updating Teletext pages automatically, press .

- Press again to release the hold mode.

Displaying Subtitle

You can display several subtitles as they are transmitted.

1 Press ▭ to display the subtitle.

- Subtitle is updated by the information sent by the broadcasting station.

2 Press ▭ to exit the subtitle screen.

NOTE

- Subtitle will not be displayed when the service does not contain the subtitle information.

Appendix

Troubleshooting

Problem	Possible Solution
• No power.	• Is the AC cord disconnected? (See page 3.) • Has the power been turned on? (See page 7.) • Make sure the ⏻ (**Power**) switch of the TV is set to ON.
• Unit cannot be operated.	• External influences such as lightning, static electricity, etc., may cause improper operation. In this case, operate the unit after first turning the power off, or unplugging the AC cord and re-plugging it in after 1 or 2 minutes.
• Remote control unit does not operate.	• Are batteries inserted with polarity (+, −) aligned? (See page 4.) • Are batteries worn out? (Replace with new batteries.) • Are you using it under strong or fluorescent lighting? • Is a fluorescent light illuminated to remote control sensor?
• Strange colour, light colour, or dark, or colour misalignment.	• Adjust the picture levels. (See page 9.) • Is the room too bright? The picture may look dark in a room that is too bright. • Check the system setting. (See page 19.) • Check the input type setting. (See page 21.)
• Power is suddenly turned off.	• The unit's internal temperature has increased. Remove any objects blocking vent or clean. • Check the power control setting. (See page 21.)
• No picture.	• Is connection to other components correct? (See pages 22 and 23.) • Has input type setup been done correctly after connection? (See page 21.) • Is the correct input selected? (See page 21.) • Is a non-compatible signal being input? (See page 24.) • Is picture adjustment correct? (See pages 9 and 10.) • Is the antenna connected properly? (See page 3.)
• No sound.	• Is the volume too low? (See page 5.) • Make sure that headphones are not connected. (See page 6.) • Make sure the sound is not set to Mute.

Cautions regarding use in high and low temperature environments

- When the unit is used in a low temperature space (e.g. room, office), the picture may leave trails or appear slightly delayed. This is not a malfunction, and the unit will recover when the temperature returns to normal.
- Do not leave the unit in a hot or cold location. Also, do not leave the unit in a location exposed to direct sunlight or near a heater, as this may cause the cabinet to deform and the LCD panel to malfunction.
  Storage temperature: –20°C to +60°C (–4°F to +140°F).

Specifications

Item			26″ LCD COLOUR TV, Model: LC-26GA5E	32″ LCD COLOUR TV, Model: LC-32GA5E	37″ LCD COLOUR TV, Model: LC-37GA5E
LCD panel			26″ Advanced Super View & BLACK TFT LCD	32″ Advanced Super View & BLACK TFT LCD	37″ Advanced Super View & BLACK TFT LCD
Number of dots			3,147,264 dots (1366 × 768 × 3 dots)		
Video Colour System			PAL/SECAM/NTSC 3.58/NTSC 4.43/PAL 60		
TV Function	TV-Standard (CCIR)		B/G, I, D/K, L, L'		
	Receiving Channel	VHF/UHF	E2–E69ch, F2–F69ch, I21–I69ch, IR A–IR Jch		
		CATV	Hyper-band, S1–S41ch		
	TV-Tuning System		Auto Preset 99 ch, Auto Label, Auto Sort		
	STEREO/BILINGUAL		NICAM/A2		
FM RADIO Function	Receiving Frequency:		87.5-108 MHz		
	Receiving Channel:		1–40 CH		
Brightness			450 cd/m^2		
Backlight life			60,000 hours (at Backlight Standard position)		
Viewing angles			H : 170° V : 170°		
Audio amplifier			10W × 2		
Speakers			Ø 8 cm 2pcs		
Terminals	Rear	ANTENNA IN	UHF/VHF 75 Ω Din type		
		FM Radio in	Din type		
		EXT 1	SCART (AV input/output, RGB input, TV output)		
		EXT 2	SCART (AV input/output, Y/C input, AV Link)		
		EXT 3	S-VIDEO (Y/C input), RCA pin (AV input)		
		EXT 4	RCA pin (component input)		
		PC INPUT	D-sub 15 pin (ANALOG RGB), Ø 3.5 mm Jack (Audio Input)		
		AV OUTPUT	RCA pin (Variable/Fixed)		
		Headphones	Ø 3.5mm jack (Audio output)		
OSD language			English/German/French/Italian/Spanish/Dutch/Swedish/Portuguese/Finnish/Turkish/Greek/Russian/Polish		
Power Requirement			AC 220–240 V, 50 Hz		
Power Consumption			110 W (0.95 W Standby) (Method IEC60107)	135 W (0.95 W Standby) (Method IEC60107)	162 W (0.95 W Standby) (Method IEC60107)
Weight			12 kg (Display only), 15 kg (Display with stand)	15.5 kg (Display only), 19.5 kg (Display with stand)	18.5 kg (Display only), 22.5 kg (Display with stand)

- As a part of policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

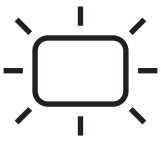
NOTE

- Refer to inside back cover for dimensional drawings.

Corresponding real channel

Band	System	Station Signal	Real Channel Number	Frequency MHz	Specially available
VHF	L/L'	F-2 — F-4	CH-02 — CH-04	55.75 — 63.74	In France
		F-5 — F-10	CH-05 — CH-10	176.00 — 216.00	
	B/G	E-2 — E-4	CH-02 — CH-04	48.25 — 62.25	
		E-5 — E-12	CH-05 — CH-12	175.25 — 224.25	
		A — H	CH-13 — CH-20	53.75 — 210.25	In Italy
	I	IR-1(A) — IR-9(J)	CH-01 — CH-09	45.75 — 215.25	Ireland/(In United Kingdom)
	D/K	E-2 — E-4	CH-02 — CH-04	48.25 — 62.25	
		E-5 — E-12	CH-05 — CH-12	175.25 — 224.25	
		R-I — R-XII	CH-71 — CH-82	49.75 — 223.25	
UHF	L/L'	F-21 — F-69	CH-21 — CH-69	471.25 — 855.25	In France
	B/G	E-21 — E-69	CH-21 — CH-69	471.25 — 855.25	
	I	I-21 — I-69	CH-21 — CH-69	471.25 — 855.25	In United Kingdom
	D/K	E-21 — E-69	CH-21 — CH-69	471.25 — 855.25	
CATV	L/L'	B — Q	CC-01 — CC-16	116.75 — 296.75	In France
		17 — 60	CC-17 — CC-60	120.00 — 292.00	
		61 — 74	CC-61 — CC-74	303.25 — 459.25	
	B/G	M1/S1 — M10/S10	CC-01 — CC-10	105.25 — 168.25	
		U-1/S-11 — U-10/S-20	CC-11 — CC-20	231.25 — 294.25	
		S-21 — S-41	CC-21 — CC-41	303.25 — 463.25	
		M-1 — M-7	CC-42 — CC-48	115.25 — 163.25	In Holland
		B-1 — B-7	CC-49 — CC-55	231.25 — 279.25	
		S'1/S21 — S'5/S25	CC-75 — CC-79	69.25 — 97.25	In Switzerland
	I	M1/S1 — M10/S10	CC-01 — CC-10	105.25 — 168.25	In United Kingdom
		U-1/S-11 — U-10/S-20	CC-11 — CC-20	231.25 — 294.25	
		S-21 — S-41	CC-21 — CC-41	303.25 — 463.25	
			CC-42 — CC-63	48.00 — 304.00	
			CC-64 — CC-68	69.25 — 98.25	
	D/K	E-1 — E-41	CC-01 — CC-41	105.25 — 463.25	

The Consumer Electronics Industry has initiated a commitment to improve the energy efficiency of TVs. SHARP has signed this commitment and as a result this TV may have a label on the front of the product informing the customer of the energy consumption in various operating modes.



"ON" - The energy consumption (W) of the set when operating with picture and sound (measured according to IEC 62087:2002)

"Standby" The energy consumption (W) of the set when in standby, no picture or sound (measured according to IEC 62087:2002)

An estimated annual energy consumption (kWh) based on a duty cycle of 4 hours "on" and 20 hours in "standby" for 365 days

Note: The IEC 62087:2002 measurement standard sets brightness and sound levels that may not be the same as the TV in "shipped" condition. Therefore the power consumption as measured at "on" is purely indicative and may not be the same value as in the "shipped" condition.

Information for Customers on environmentally friendly disposal of this SHARP product

If this product cannot be used any more, it should be disposed of in a legally correct and environmentally sound way.

DO NOT DISPOSE OF THIS PRODUCT WITH YOUR HOUSEHOLD WASTE
OR MIXED WITH OTHER WASTES! YOU MIGHT ENDANGER THE ENVIRONMENT!

Sharp Corporation is committed to protecting the environment and conserving energy. Our goal is to minimize the environmental impact of our products by continually implementing and improving product technologies, designs, and customer information aimed at environmental conservation.

(1) For our customers in Belgium, The Netherlands, Sweden, and Switzerland

SHARP takes part in the respective national recycling systems for electronic equipment, which have been founded on the base of the environmental laws in these countries.

Please see here details on the respective countries.

Country	Recycling Information for that Country
Sweden	Please use the Swedish electronics recycling system called “ELRETUR”, and see the website at http://www.el-kretsen.se
The Netherlands	Please use the Dutch electronics recycling system called “ICT-Milieu”, and see the website at http://www.nederlandict.nl/index.php
Belgium	Please use the Belgian electronics recycling system called “Recupel”, and see the website at http://www.recupel.be
Switzerland	Please use the Swiss electronics recycling system called “SWICO”, and see the website at http://www.swico.ch

(2) For our customers in United Kingdom, Germany, France, Spain and Italy

Please contact your local authorities for collection and recycling facilities, or contact a recycling service company, which is licensed for the recycling of electronic equipment.

The PIN is | | | | | .

NOTE

- As a precautionary measure, make a note of your PIN above, scissor it from this manual, and keep it in a familiar place.

IMPORTANT NOTE ON DISENGAGING ADVANCED CHILD LOCK

We suggest that you remove the following instruction from the operation manual to prevent children from reading it. As this operation manual is multilingual, we also suggest the same with each language. Keep it in a safe space for future reference.

If you have forgotten your personal code number and cannot disengage ADVANCED CHILD LOCK, follow the procedure below.

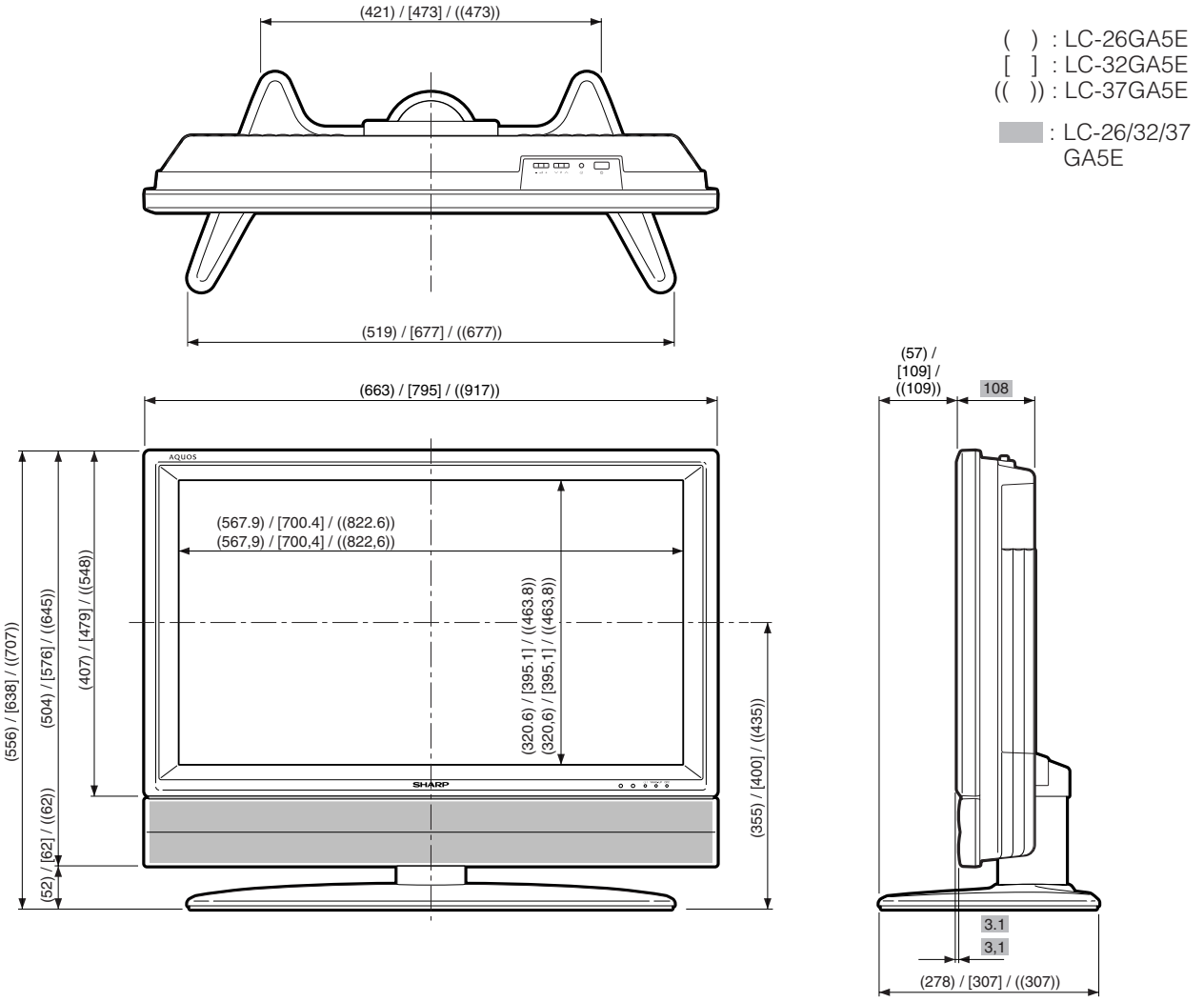
1. Press **MENU** to display the menu screen.
2. Press ◀/▶ to select “FEATURES”.
3. Press ▲/▼ to select “CHILD LOCK”.
4. Press ▶ to display the “CHILD LOCK” options.
5. Press ▲/▼ to select “CHANGE PIN”.
6. Press **OK**. The “SECRET NUMBER” screen is displayed.
7. Input “3001” with **Programme select (0-9)**.
8. Press **OK** to confirm. The “CHANGE PIN” menu screen is displayed.
9. Input the new four-digit “PIN” with **Programme select (0-9)**.
10. Press **OK** to confirm the new input.

NOTE

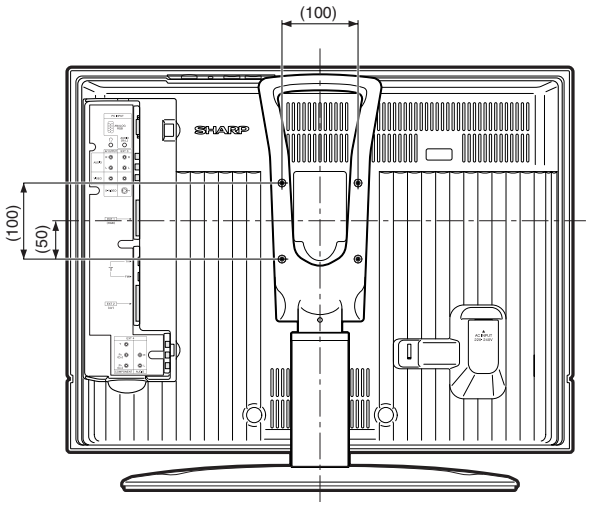
LC-26/32/37GA5E

( ) : LC-26GA5E
[ ] : LC-32GA5E
(( )) : LC-37GA5E

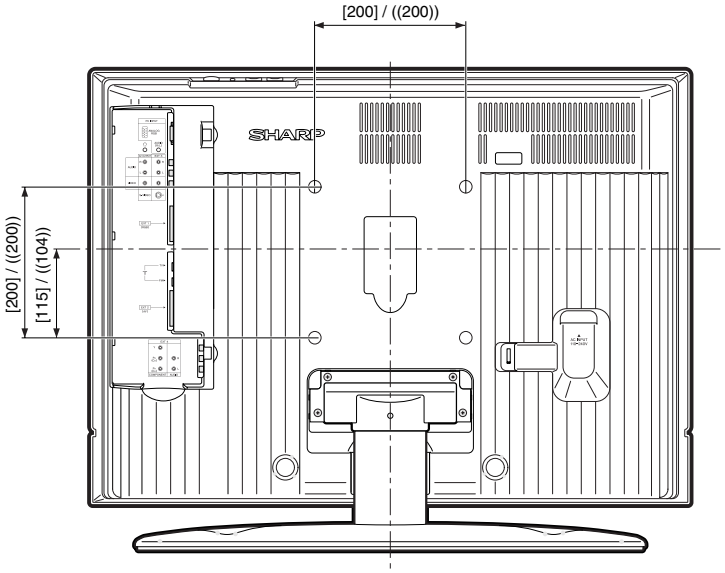
: LC-26/32/37 GA5E



LC-26GA5E



LC-32/37GA5E



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